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Tipe Remote Horses sequence:
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Listing first 45 su
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2: sp_bacteria:*
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Gapop 10.0 , Gapext 0.5
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2731
1 MALAPERAAPRVLFGEWLLG.....SANSLYDDIECFLMELEQPA 503
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Copyright (c) 1993 - 2003 Compugen Ltd.
sp_organelle:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Query Match Length DB		ID	Description
1	1116	40.9	210	4	Q9UE79	Q9ue79 homo sapien
2	778	28.5	491	13	Q90ZD4	Q90zd4 gallus gall
w	603	22.1	128	4	Q9HB64	Q9hb64 homo sapien
4	440	16.1	459	13	057578	057578 xenopus lae
ហ	430	15.7	467	σ	Q9N136	Q9n136 ovis āries
9	428	15.7	467	11	Q91VD0	Q91vd0 mus musculu
7	420	15.4	467	σ	Q8WNQ4	Q8wnq4 sus scrofa
80	364.5	13.3	452	4.	Q96GL3	Q96gl3 homo sapien
9	364	13.3	445	13	Q98TX7	Q98tx7 gallus gall
10	362	13.3	409	13	Q98TX6	Q98tx6 gallus gall
11	344	12.6	440	4	Q99419	Q99419 homo sapien
12	321	11.8	416	13	01M060	Q90wi0 gallus gall
13	281.5	10.3	330	11	Q9QZL7	Q9qzl7 mus musculu
14	194	7.1	215	11	Q924T6	Q924t6 mus musculu
15	183	6.7	1334	16	Q9RKR9	
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Pfam; pro0605; IRF; 1.
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PROSITE; PS00601; IRF; UNKNOWN 1.
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"Cloning and Promoter Analysis of the Chicken Factor-3 Gene.";
Submitted (MAY-2000) to the EMBL/GenBank/DDBJ
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Eukaryota; Metazoa; Chordata;
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                                   GRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSLDSSDLDLCLSSANSLYDDIECFLMELE
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TKPKESKLILVKLVPQFCEYWYEQVQRGGASSLNSGNVSLQLSDSFNLFELIEQYHMQTD
                                                                                                                      GGPPGSASPSTPACLLPRNCDTPIFDFRVFFQELVEFRARQRRGSPRYTIYLGFGQDLSA
                                                                                                                                                                                              QRLVLFPSPASLPDPRQRRYTENLLE -- VAGLRLEQRAGQLLATRLKKCKVFWALSQQLE
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PROSITE; PS00601; IRF; 1.
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Amphibia; Batrachia; Anura;
Xenopodinae; Xenopus.
                     InterPro; IPR001346; IRF.
Pfam; PF00605; IRF; 1.
PRINTS; PR00267; INTERNREGECT.
PRODOM; PD002355; IRF; 1.
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Fukui A., Noda M., Asashima M.;
"An interferon regulatory factor-related
                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A. MEDLINE=98086218; PubMed=9426249;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            XIRF-6 protein.
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01-JUN-1998
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Lu R., Au W.-C., Yeow W.-S., Hageman N., Pitha P.M.;
Lu R., Au W.-C., Yeow W.-S., Hageman N., Pitha P.M.;
"Regulation of the promoter activity of interferon regulatory facto:
gene. ACTIVATION BY INTERFERON AND SILENCING BY HYPERMETHYLATION.";
J. Biol. Chem. 275:31805-31812(2000).
EMBL, AF277159; AAG30003.1; -.
EMBL, AF277159; AG30003.1; -.
EMBL, AF2777159; AG30003.1; -.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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01-MAR-2001 (TrEMBLrel. 16, Last sequence up
01-DEC-2001 (TrEMBLrel. 19, Last annotation
                                                                                                                                                                  EMBL; D86492; BAA24349.1;
HSSP; P23906; 2IRF.
                                                                                                                                                                                                                                     Gene 203:183-188(1997).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Xenopus laevis (African clawed frog)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (Human)
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                                                                                                                                                                                                                                                                                                    posterior mesoderm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TaxID=8355;
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SEQUENCE
                                                                                                                                                                      SEQUENCE FROM N.A.
TISSUE=15 DAY PREGNANT UTERUS;
Choi Y., Spencer T.E., Bazer F.W.;
"Cloning and Analysis of Ovine IRF-6.";
Submitted (JAN-2000) to the EMBL/GenBanl
EMBL; AF228446; AAF34782.1; -.
                                                                                                                                                                                                                                                                                                                       Ovis aries (Sheep).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Butheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea

Bovidae; Caprinae; Ovis.

NCBI_TaxID=9940;
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01-OCT-2000 (TrEMBLrel. 15, I
01-DEC-2001 (TrEMBLrel. 19, I
Interferon regulatory factor
                                                                                                                       HSSP; P23906; 2IRF.
InterPro; IPR001346; IRF.
Pfam; PF00605; IRF; 1.
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                                      PRINTS; PR00267; INTERNREGECT PRODOM; PD002355; IRF; 1. SMART; SM00348; IRF; 1. PROSITE; PS00601; IRF; 1.
                       SEQUENCE
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                       467 AA;
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                       52970 MW;
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27.1%;
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Pred. No. 1
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                       21E04F749844D88F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -- QNHVPISEPFNCLNINDSPIGSSSTGSCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ----DIPQSQG
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Mismatches 197;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      467
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   update)
                                                                                                                                                                                                        databases
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         --SIINPGSTGSVPWD
                                                                                                                                                                                                                                                                                                                                                                        Bovoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                                         RESULT Q91VDO ID VDO ID
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Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q91VD0;
                                                                                                                                                                                                    EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DEC-2002 (TrEMBLrel. 21, Last annotation update)
EM282D4.4 (interferon regulatory factor 6).
                                                           Pfam; PF00605; IRF; 1.
ProDom; PD002355; IRF; 1.
PROSITE; P800601; IRF; UNKNOWN 1.
SEQUENCE 467 AA; 53110 MW; 1.C
                                                                                                                                                                                                                           Strausberg
Submitted
                                                                                                                                                                                                                                                                                                          Tromans A. Submitted
                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                      EMBL; AL365322; CAC42184.1;
EMBL; BC008515; AAH08515.1;
MGD; MGI:1859211; Irf6.
InterPro; IPR001346; IRF.
                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IRF6.
                                                                                                                                                                                                                                                                                                                                Tromans
                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IFDFRVFFQELVEFRARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCRVHLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RYTEELLRHVAPGLHLELRGPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KFQYRGKEYGQTMTVSNPQGCRLFYGDLGPMPDQEELFGPVSLEQVKFPGPEHITNEKQK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NDVDEEDEEDELDQSQHHVPIQDTFPFLNINGSPI---APGS----VGNCSVGNCSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HKVYALSRELCWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLP----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FKAWAVARGRWPBSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGD-PADP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MALAPERAAPRVLFGEWILGEISSGCYEGLQWLDEARTCFRVPWKHFAR-KDLSEADARI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTQREGVSSLDSSDLDLCLSSANSLYDDIECFLMEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LFCLETFLSDLIAHHKGQIEKQPPFEIYLCFGEEWPDGKPQERKLILVQVIPVVAGMIYE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LFTSKLLDVMDRGLILEVSGHAIYAIRLCQCKVYWSGPCAPSLVAPN---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TIMYKGRTVLQKV-VGHP-SCTFLYGPPDP-----AVRATDPQQVAFPSPAELPDQKQL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          --APAGDKGDLLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FKAWAVETGKY---QEGVDDPDPAK-----WKAQLRCALNKSREFNLMYDGTKEVPMNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MALHPR----RVRLKPWLVAQVDSGLYPGLIWLHRDSKRFQIPWKHATRHSPQQEEENTI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGELYGWAVETTPSPGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDV
                                                                                                                                                                                                                         (MAY-2001) to the
                                                                                                                                                                                                                                                                                                          (APR-2001)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                          Chordata;
Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15.7%;
15.7%;
27.5%;
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                                                                                                                                                                                                                         EMBL/GenBank/DDBJ
Score
Pred.
                                                                                                                                                                                                                                                                                                          EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 430; DB 6;
Pred. No. 5.7e-22;
2; Mismatches 209
                                                                                                                                                                                                                                                                                                                                                                                                          Craniata; Ver
Sciurognathi;
                                                           1C564BC8D79C5259
428;
No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  467
7.8e-22;
                                                                                                                                                                                                                                                                                                                                                                                                                                Vertebrata; Euteleostomi;
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B

439 499

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228

291 188

403 288 343

344

138

173 107 118 56

Muridae;

Murinae;

Mus

databases

CRC64; Length

467;

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                            Matches
                                        Query Match
Best Local
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                                                                         PRINTS; PR00267; INTFRNREGFCT.
ProDom; PD002355; IRF; 1.
SMART; SM00348; IRF; 1.
PROSITE; PS00601; IRF; UNKNOWN 1.
PROSITE; PS00601; IRF; UNKNOWN 1.
                                                                                                                                                                                                                                                                                    Sus scrofa (Pig).
Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                     01-MAR-2002 (TrEMBLrel. 20, Created)
01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Interferon regulatory factor 6.
                                                                                                                                        Q8WNQ4;
                                                                                                                                                                                                                                                                                                                                                                                                      Q8WNQ4
                                                                                                                                                                                                                                  TISSUE=ILEUM;
                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                         Local Similarity
nes 138; Conserv
                                                                                                                                                                                                                                                                         _TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               407
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               GDFTRSFDSGSVRLQISTPD-IKDNIVAQLKOL
RVLFGEWLLGEISSGCYEGLQWLDEARTCFRVPWKHFAR-KDLSEADARIFKAWAVARGR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EELLRHVAPGLHLELRGPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LYGWAVETTPSPGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KGDLLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPL----TGACAGGPGLPAGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VKIY----QVC---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HKVYALSRELCWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REGVSSLDSSDLDLCLSSANSLYDDIECFLMEL 499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LETFLSELIAHQKGQIEKQPPFEİYLCFGEEWPDGKPLERKLILVQVIPVVARMIYEMFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FRVFFQELVEFRARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCRVHLEGTQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SKLLDVMDRGLILEVSGHAIYAIRLCQCKVYWSGPCAPSLAAPN----LIERQKKVKLFC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YKGRTVLQKV-VGHP-SCTFLYGPPDP----AVRATDPQQVAFPSPAELPDQKQLRYT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EKDNDVDEDEE----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MALAPERAAPRVLFGEWLLGEISSGCYEGLQWLDEARTCFRVPWKHFAR-KDLSEADARI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          YRGKEYGQTMTVSNPQGCRLFYGDLGPMPDQEELFGPVSLEQVKFPGPEHITNEKQKLFT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -----ESVWPKTEPLEMEVPQAPIQPFYSSPELWISSLPMT-----DLDIKFQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                      PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -RVRLKPWLVAQVDSGLYPGLIWLHRDSKRFQIPWKHATRHSPQQEEENTI
                                                                                                                                                                                                                                                                                    Chordata; Craniata; Vertebrata; Euteleostomi; Cetartiodactyla; Suina; Suidae; Sus.
                                     15.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -EDELEQSQHHVPIQDTFPFLNINGSPMAPASVGNCSVGNCSP---
                        71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     72;
                         Score 420; DB
Pred. No. 2.8e-
71; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                      467
                                    DB 6;
.8e-21;
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                                                                                                                                                                                                          CDNA
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                                                                                                                                                                                 databases
                                                 Length 467;
                                                                                                                                                                                                       cloning,
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                         Indels
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                                                                                                                                                                                                         expression
                          84;
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                        Gaps
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                                                                                                                                       Best Loc
Matches
                                                                                                                                                                  Query Match
                                                                                                                                                                                          Submitted JUN-2001) to the EMBL/GenBank/DDBJ database: EMBL; BC003395; AAH09395.1; -.
InterPro; IPR001346; IRF:
Pfam; PF00605; IRF; 1.
ProDom; PD002355; IRF; 1.
PROSITE; PS00601; IRF; UNKNOWN 1.
SEQUENCE 452 AA; 49120 MW; 96B059A02BAE6B64 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                  01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DEC-2002 (TrEMBLrel. 20, Last annotation update)
Similar to interferon regulatory factor 3.
                                                                                                                                                                                                                                                                                         Strausberg R.;
                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q96GL3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q96GL3
                                                                                                                                                                                                                                                                                                         TISSUE=BRAIN;
                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  œ
                                                                                                                                                     Local
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 130 WREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGDLLLQAVQQ 189
                           64
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                                                                                                                                                     Similarity
                                                      WPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKVYALSRELC 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SVRLQISTPD-IKDNIVAQLKQL 439
                              YVP---
                                                                                                 PRVLFGEWLLGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLSEADARIFKAWAVARGR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGA----CAGGPGLPAGELYGWAVETTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Y---QEGVDDPDPAK-----WKAQLRCALNKSREFNLMYDGTKEVPMNPVKIY----QV 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIL--PWLVSQLDLGQLEGVAWVNKSRTRFRIPWKHGLRQDAQQEDFGIFQAWAEATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DLDLCLSSANSLYDDIECFLMEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HQKGQIERQPPFEIYLCFGEEWPDGKPLERKLILVQVIPVVARMIYEMFSGDFTRSFDSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FRARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSLDSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LILEVSGHAIYAIRLCQCKVYWSGPCAPSLVAPN---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LHLELRGPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVFFQELVE 416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TVSNPQGCRLFYGGLGPMPDQEELFGPVSLEQVKFPGPEHITNEKQKLFTSKLLDVMDRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -VGHP-SCTFLYGPPDP-----AVRATDPQQVAFPSPAELPDQKQLRYTEELLRHVAPG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -PKAEPLEMEVPQ--APIQPFYSSPELWISSLPMT-----DLDIKFQYRGKEYGQTM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SPGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRTVLQKV 304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEDEEDE-LDQSQHHVPIQDTFPFLNINGSPIAPASVDNCSVGNCSPEAV---W-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGDLLLQAVQ 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGD-PADPHKVYALSREL 128
                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                           -GRDKPDLPT-----WKRNFRSALNRKEGLRLAEDRSKDPHDPHKIYEFV----
                                                                                                                                                    13.3%;
                                                                                                                                                                                                                                                                                                                                                             Primates;
                                                                                                                                                                                                                                                                                                                                                                             Chordata;
                                                                                                                                        43;
                                                                                                                                                    Score 364.5;
Pred. No. 1.8
                                                                                                                                                                                                                                                                                                                                                                           Craniata;
                                                                                                                                                                                                                                                                                                                                                              Catarrhini;
                                                                                                                                        Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          452
                                                                                                                                                                                                                                                                                                                                                                             Vertebrata;
                                                                                                                                                     .8e-17;
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                                                                                                                                                                  DB 4;
                                                                                                                                                                                                                                                                                                                                                                Hominidae;
                                                                                                                                        153;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                --SVVNPGSTGSAPWDEKD---NDVD 142
                                                                                                                                                                                                                                                                               databases.
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                                                                                                                                        Indels
                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                             Euteleostomi;
                                                                                                                                        103;
                                                                                                                                       Gaps
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RESULT
Q98TX7
                                                                                                                                                                                                                                                                                                          Query Match
Best Local :
                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                    PRINTS; PR00267; INTERNREGECT
Probom; PD002355; IRF; 1.
SMART; SW00348; IRF; 1.
PROSITE; PS00601; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mol. Cell. Biol. 21:6369-6386(2001).
EMBL; AF320331; AAK08198.1; -.
HSSP; P23906; 2IRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=21424622; PubMed=11533227; Ur. Hrdlickova R., Nehyba J., Bose H.R. Jr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
STRAIN-SPAFAS; TISSUE-SPLEEN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasiani
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gallus gallus (Chicken).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JUN-2001 (TrEMBLrel 17, Created)
01-JUN-2001 (TrEMBLrel 17, Last sequence up
01-JEC-2001 (TrEMBLrel 19, Last annotation
Interferon regulatory factor 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q98TX7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Interferon Regulatory Factor 4 Contributes Rel-Expressing Fibroblasts.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q98TX7;
                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                      Pfam; PF00605; IRF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro; IPR001346; IRF.
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 245
                                 186
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                                                                                                                                                                                                                                                                                           130;
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                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                            EWLLGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLS-EADARIFKAWAVARGRWPPSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EGLRLYG-SEVGDRTLPGWPVTLPDPGMSLTDRGVMSYVRHVLSCLGGGLALWRAGQWLW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SCTFLYGPPDPAVRATDPQQVAFPSPA-BLPDQKQLRYTEBLLRHVAPGLHLBLRGPQLW 367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEP-SPGALDVTIMYKGRTVLQKVVGHP 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAVETTPSPGPQ 249
 SPG-PQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRTVLQK 303
                                                                                                                            PGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLP----APAGDKGDLLL 184
                                                                                                                                                                                                                           QWLIDQIDSGKYPGLVWENDEKSIFRIPWKHAGKQDYNREEDAALFKAWALFKGKF----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AQRLGHCHTYWAVSEELLPNSGHGPDGE------VPKDKEGGVFDLGPF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -NSGVG----DFSQPDTSPDTNGG
                                 QCAS---
                                                              QAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAVETTP
                                                                                             AKQNSMEEQPLMNHPFPITSP-----YTSLPSQVPNYMVPHERNWREFAPEQPHPDIPY 185-
                                                                                                                                                             REGIDKPDPPT----WKTRLRCALNKSNDFEELVERSQLDISDPYKVYRIVPEGA-KKG
                                                                                                                                                                                           RGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSG-DPADPHKVYALSRELCWREG 133
                                                                                                                                                                                                                                                                                                                                                         445 AA;
                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                       51120 MW;
                                                                                                                                                                                                                                                                                                      13.3%;
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                                                                                                                                                                                                                                                                                      71;
                                                                                                                                                                                                                                                                                       Score 364; DB
Pred. No. 1.9e-
71; Mismatches
                               VPFAARGHHWQGPGCENGCQ----VTGTFYACAPPESQ
                                                                                                                                                                                                                                                                                                                                                       7CAE7BDF96780432 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -GPPGSASPSTPACLLPRNCDTPIFDFRVF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence update)
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                                                                                                                                                                                                                                                                                                      DB 13;
.9e-17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Transformation
                                                                                                                                                                                                                                                                                                                       Length 445;
                                                                                                                                                                                                                                                                                           Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Phasianinae;
                                                                                                                                                                                                                                                                                         90;
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                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -TQ 136
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Q98TX6
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                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 123; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-JUN-2001 (TrEMBLrel. 17, Created)
01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                    Pfam; PF00605; IRF; 1.
PRINTS; PR00225; INF; 1.
ProDom; PD00225; IRF; 1.
SMART; SM00348; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mol. Cell. Biol. 21:6369-6386(2001).
EMBL; AF320332; AAK08199.1; -.
HSSP; P23906; 2IRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Interferon Regulatory Factor 4 Contributes Rel-Expressing Fibroblasts.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=21424622; PubMed=11533227;
Hrdlickova R., Nehyba J., Bose H.R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; (Archosauria; Aves; Neognathae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q98TX6
                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=SPAFAS; TISSUE=SPLEEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gallus gallus (Chicken)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q98TX6;
                                                                                                                                                                                                                                                                                                                                                                        PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9031;
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                                                               DHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAVETTPSPGPQPAAL
                                                                                                                                                                                                                         QWLIDQIDSGKYPGLVWENDEKSIFRIPWKHAGKQDYNREEDAALFKAWALFKGKF----
                                                                                                                                                                                                                                                                                                                                                                        PS00601;
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TTGE----AAAPESPHQAEPYLSPS-PSACTAVQEPSPGA----
                                 NH--
                                                                                                                                                                                           RGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSG-DPADPHKVYALSRELCWREG
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                                                                                                                                                             REGIDKPDPPT----
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                                                                                                                                                                                                                                                                                                                                                       47489 MW;
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Veognathae; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                      13.3%;
                                                                                                                                                           -WKTRLRCALNKSNDFEELVERSQLDISDPYKVYRI
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                                                                                                                                                                                                                                                                                       Score 362; DB 13;
Pred. No. 2.4e-17;
5; Mismatches 178;
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                                                                                               ---VPEGAKKGAKQNSMEEQPLM
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 -LDVTIMYKGRTVLQK 303
                               ---YTSLPSQVPNYM
                                                                                                                                                                                                                                                                                                                       409;
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Q99419;
01-MAY-1997
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SMART; SM00348; IRF; 1.
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MEDLLNE=96239482; PubMed=8657101;

Yamagata T., Nishida J., Tanaka T., Sakai R.,

Taniguchi T., Yazaki Y., Hirai H.;

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01-JUN-2001 (TrEWBLrel. 17, Last annots
ICSAT transcription factor (Fragment).
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; D78261; BAA11335.1;
HSSP; P23906; 2IRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ICSAT/Pip/LSIRF, that negatively regregulated genes.";
Mol. Cell. Biol. 16:1283-1294(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                  Local 5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PROSITE; PS00601; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR001346; IRF. Pfam; PF00605; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                     Similarity
ETTPSPG-PQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRT
                                                                                                                                                                                                       REGIDKPDPPT----
                                                                                                                                                                                                                                                                                 QWLIDQIDSGKYPGLVWENEEKSIFRIPWKHAGKQDYNREEDAALFKAWALFKGKF----
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                                                                               CLADHLLTASWGADPVPTKAPGEGQEGLPLT
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PDGLYAKRLCQSRIYWD-
                                                                                                                                                                                                                                           RGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSG-DPADPHKVYALSRELCWREG
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                                                                                                                     -GAKQLTLEDPQMSMSHPYTMTTPYPSLPAQVHNYMMPP
                                                                                                                                                           PGTDQTEAEAP--AAVPPPQGGPPGPFL-AHTHAGLQAPGPLPAPAGDKGDLLLQAVQQS
                                                                                                                                                                                                                                                                                                                                                                                                                                                440 AA; 49804 MW;
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                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                     -RDYVPDQPHPEIPYQCPMTFGPRGHHWQGPACENGCQV-TGTFYACAP
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Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                 Score 344;
Pred. No. 4
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he activity of
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Best Local
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Submitted (MAY-2001) to the EMBL/GenBank/DDBJ da
EMBL, AF380350; AAK55444-1;
InterPro; IPR001346; IRF.
Pfam; PF00605; IRF; 1.
ProDom; PF00605; IRF; 1.
PROSITE; PS00601; IRF; UNKNOWN 1.
SEQUENCE 416 AA; 47646 MW; 669967280FEA967C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gallus gallus (Chicken).
Eukaryota; Metazoa; Chor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q90WIO;
01-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nehyba J., Hrdlickova R., Bose H.R. Jr.;
"Interferon regulatory factor 10, a novel family expression is induced by interferons, concanavali
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasiani
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-MAR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN=SPAFAS; TISSUE=SPLEEN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
Interferon regulatory factor 10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
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                     ASRTEGPYGPSCM---
                                                          LQKVVG--HPSCTFLYGPPDPAVRATDPQQVAFPSPAELPDQKQLRYTEELLRHVAPGLH
                                                                                                                                                                                                                                                                                                                                                                                 RGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSG-DPADPHKVYALSRELCWREG 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EWILGEISSGCYEGLOWLDEARTCFRVPWKHFARKDI-SEADARIFKAWAVARGRWPPSS 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PESQAPGVPTEPSIRSAEALA-
                                                                                                                                                                                                                    DHILITASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAVETTPSPGPQPAAL 253
                                                                                                                                                                                                                                                                TRDAEKDEKEGRMQPTSSKDPQGHVAEESHRG-
                                                                                                                                                                                                                                                                                                                                                                                                                         EWLIAQIDSGRYPGLRWENRERTLFRIPWKHAAKQDYRQQQDAALFRAWAVYKGKYHEGT
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                                                                                                                                      TTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMY----
                                                                                                                                                                                                                                                                                                      PGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGDLLLQAVQQSCLA 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     F-AHHGRSLPRFQVTLCFGEE
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                                                                                                    -TRSHLLPRAP-SFLPAEDVNHSDCW-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                           -DKADPSTWKTRLRCALNKSTDFQEVPERSQLDISEPYKVYQI----VC--DG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Score 321; DB 13;
; Pred. No. 1.7e-14;
65; Mismatches 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
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                     EQIEFPPPRALGGGGWTVAVTEVLERLLP--H
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                                                                                                    LHIRLYYCDVLVKELTTRTAEGCRI
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est Local S
atches 103
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01-MAY-2000 (TrEMBLrel.
01-MAY-2000 (TrEMBLrel.
01-JUN-2001 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sands A., Mak T.W.;
Submitted (AUG-1999) to the
EMBL; AF177668; AAF00915.1;
HSSP; P23906; 2IRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
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ProDom; PD002355; IRF; 1.
SMART; SM00348; IRF; 1.
PROSITE; PS00601; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=129/J;
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                                                                                                                                                                                                                                                                                                                                                                                                             VPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGDLLLQAVQQSCLADHLLTASWGADPV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GLOWLDEARTCFRVPWKHFAR-KDLSEADARIFKAWAVARGRWPPSSRGGGPPPEAETAE
                             KVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVF
                                                                                                                                                                                                                    SPHOAEPYLSPSPSACTAVOEPSPGALDVTIMYKGRTVLOKV-VGHP-SCTFLYGPPDP-
                                                                                                                                                                                                                                                                 QDTFPFLNINGSPMAPASVGNCSVGNCSP-----ESVWPKTEPLEMEVPQAPI
                                                                                                                                                                                                                                                                                                              PTKAPGEGQEGLPL----TGACAGGPGLPAGELYGWAVETTPSPGPQPAALTTGEAAAPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ---WKAQLRCALNKSREFNLMYDGTKEVPMNPVKIY----QVC--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RAGWKTNFRCALRSTRRFVMLRDNSGD-PADPHKVYALSRELCWREGPGTDQTEAEAPAA 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GLIWLHRDSKRFQIPWKHATRHSPQQEEENTIFKAWAVETGKY---QEGVDDPDPAK---
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                                                                        PDQEELFGPVSLEQVKFPGPEHITNEKQKLFTSKLLDVMDRGLILEVSGHAIYAIRLCQC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LE-RGVLLWVAPEGVFMKRQCQGRVYW--NGPLAPHQDWPNK---
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330 AA;
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ilarity 26.0%;
Conservative 4:
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                                                                                                                       AVRATOPOOVAFPSPAELPOOKOLRYTEELLRHVAPGLHLELRGPOLWARRMGKC 374
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37355 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          49;
                                                                                                                                                                         -----DLDIKFQYRGKEYGQTMTVSNPQGCRLFYGDLGPM
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Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 281.5; DB 1
Pred. No. 6.9e-12;
9; Mismatches 161
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EB02EC8B751CBD7D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       330
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 11; Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          161;
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Q924T6
ID 24T6
ID 24T6
AC Q9
DT 011
DT 011
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DT 015
CO ELL
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Q9RKR9
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Best Local (
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Q924T6;
01-DEC-2001
01-DEC-2001
01-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-MAY-2000
01-MAY-2000
01-JUN-2002
                                                                                                                     STRAIN=A3(2);
Thomson N.R.,
Submitted (DEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pfam; PF00605; IRF; 1.
ProDom; PD02355; IRF; 1.
PROSITE; P800601; IRF; UNKNOWN 1.
PROSITE; P800601; IRF; UNKNOWN 5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Putative multi-domain regulatory protein. SCO2259 OR SCC75A.05C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=21243724; PubMed=11345588;
Yawata M., Murata S., Tanaka K., Ishigatsubo Y.,
"Nucleotide sequence analysis of the ~35-kb segme
MEDLINE=97000351; PubMed=8843436; Redenbach M., Kieser H.M., Denapa
                                               SEQUENCE FROM N.A. STRAIN=A3(2);
                                                                                                                                                                                                                                          Seeger K.J., Harris
Submitted (NOV-1999)
                                                                                                                                                                                                                                                                 STRAIN=A3(2);
Seeger K.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                        Streptomyces coelicolor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q9RKR9;
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Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ISGF3G
                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                    Actinomycetales; Streptomycineae; Streptomycetaceae; Streptomyces
                                                                                                                                                                                                                                                                                                                                                                                                          Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Immunogenetics 53:119-129(2001).
EMBL; AB053120; BAB47407.1; -.
MGD; MGJ:107587; Isgf3g.
InterPro; IPR001346; IRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=1902;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
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                                                                                                                       R., Parkhill (DEC-1999) to
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O (TrEMBLrel. 13, 1
O (TrEMBLrel. 21, 1
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Rodentia;
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                                                                                                                     J., Fo the
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  Denapaite
                                                                                                                     Barrell B.G., Rajandream M.A.;
EMBL/GenBank/DDBJ databases.
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Last sequence that the control of the cont
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Last annotation update)
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Pred. No. 4.7e-06;
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annotation update)
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  Eichner
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38;

Gaps

75 83

124

CRC64; Length Indels

215; 12;

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Best Local S
Matches 106
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"A set of ordered cosmids and a detailed genetic and physical map the 8 Mb Streptomyces coelicolor A3(2) chromosome.";
Mol. Microbiol. 21:77-96(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRINTS; PR00364; DISEASERSIST.
PRINTS; PR01574; TUBEYPROTEIN.
PROLOM; PD000329; Trans reg_C; 1.
SEQUENCE 1334 AA; 138787 MW; 78DC746883E8778C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,
Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,
Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,
Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,
Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neil S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Complete genome sequence of the model actinomycete Streptomyces coelicolor A3(2).";
Nature 417:141-147(2002).
TEMBL; AL133220, CAB61705.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR005158; BAD.
InterPro; IPR0050767; Disease resist.
InterPro; IPR001867; Trans_reg_C.
Pfam; PF03704; BAD; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ruding (.-n., hisset i., runner am M.A., Rutherford K., Rutter S., Rabinowitsch E., Rajandream M.A., Rutherford K., Rutter S., Taylor Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Seeger K., Saunders D., S
Warren T., Wietzorrek A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN=A3(2) / M145;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lopwood D.A.;
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                                                                                                                                                                                                                                                                                          167
                                                                                                                                                                                                                                                                                                                                 253
                                                                                                                                                                                                                                                                                                                                                                                                                   196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               146 VLADLPDRTAEAARW--ETRHFEALRARHTAALDLGQAEHSLPELTALCDGH-----
                                                                                                                                                                  363
                                                                                                                                                                                                                                               313 PAPGWWPAPGTAPGSSTAPPHDTASAAD---TA---PAPGPTSAPGTA----PAAGTAAP 362
                                                                                                                                                                                                                                                                                                                                                                        118
  469
                                      325
                                                                                  423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   106;
                                                                                                                    272 SPSPSACTAV------QEPSPGALDVTIMYKGRTVLQKVVGHPSCTFLYGPPDPAVRAT 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                          78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                     GPGL--PA-GELY--GWA--VETTPSPGPQPAALTTGEA------AAPESPHQAEPYL
                                                                                                                                                                                                                                                                                        QAPGPLPAPAGDKGDLLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAG
                                                                                                                                                                                                                                                                                                                               PTPTPGRSRTPGWTSGPGPASGAGAASGTDVASGAGAASGPDPASGPASGPAVAPGSGGG 312
                                                                                                                                                                                                                                                                                                                                                                                                               -PLDEPLOALRLRALRDSGRTAEALAAYEAVRR--LLADRLGTDPGPELRTLHAELLSPS 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                      GPPPBAETAER-----AGWKTNFRCALRSTRRFVMLRDNSG-DPA-------D 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LLGEISSGCYEGLOWLDEARTCFRVPWKHFARKDLSEADARIFKAWAVARGRWPPSSRGG
                                                                                                                                                             APGTAGPAPGTSYAPGTAPVAGTTPAPGTAPAPGTAGPARDTSYAPGTAPVAGTTPAPGT 422
                                                                                                                                                                                                                                                                                                                                                                      PHKVYALSRELCWREGP------GTDQTEAEAPAAVPPPQGGP-PGPFLAHTHAGL 166
PPEAAAAASAGSAPSPA 485
                                    DPQQVA-----FPSPA 335
                                                                               APAPGSTPAPGTVPAPGTAPAPGPQPA----DGR---RPVTGPASGT---GPG----AAT 468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6.7%; Score 183; DB 16; 28.1%; Pred. No. 0.00021; tive 25; Mismatches 150;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1334;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 96;
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                                                                                                                                                                                                        271
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 195
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Search completed: June 18, 2003, 12:47:49 Job time: 39 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model
Run on: June 18, 2003, 12:45:13; Search time 22 Seconds (without alignments)
2197.982 Million cell updates/sec
Title: US-09-647-965-9
Perfect score: 2731
Sequence: 1 MALAPERAAPRVLFGEWLLG......SANSLYDDIECFLMELEQPA 503
Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Total number of hits satisfying chosen parameters: 283224
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

PIR_73:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

SUMMARIES

Result No.	Score	Query Match	Length	B	ID .	
1	00 1		491	2	S56753	interferon regulat
2	482.5	7.	504	N	G02474	regula
ω	4	16.1	459	N	JC6520	regula
4.	7	•	450	N	S57837	lymphoid-specific
υī	w	12.2	424	2	A35861	interferon consens
6		•	393	N	A45017	transcription fact
7	306		425	N	A45064	nsen
89	•		399	N	JC4592	transcription fact
9	224		203	N	S57836	
10	œ	•	1334	N	T50568	probable multi-dom
11	7	6.4	325	2	152998	interferon regulat
12	-	6.4	1146	N	A38587	collagen, cornea-s
13	ō	6.1	349	N	A53340	interferon regulat
14	166	6.1	325	N	B31595	interferon regulat
15	166	6.1	329	N	A31595	
16	165.5		328	N	A36330	interferon regulat :
17		5.9	1400	N	T31555	al prot
18	160	•	1747	_	A45974	11ph
19	159.5		416		SKXLAG	dermal gland prote
20	159		576	N	T36729	er
21	.00		839	Ν	O.	extensin homolog F
22	157.5	٠	705	N	A35363	
23		•	1464	N	S59856	collagen alpha 1(I
24	156	٠	381	N	0	hypothetical prote
25	in		1857	N	-	collagen alpha 1(X
26	LЛ		1888	N	S78476	collagen alpha 1(X
27	LB		3149	ᆫ	QQBE8	F1 protein -
28	155	5.7	108	N	T29018	hypothetical prote
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144.5 5.3	144.5 5.3	145 5.3	145 5.3	145 5.3	40 146.5 5.4 1042	147 5.4	147 5.4	148 5.4	148 5.4	148 5.4	148.5 5.4	149.5 5.5	150 5.5	5.5	30 154 5.6 3,530
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ALIGNMENTS

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379 GGEPPLNLLHRDQETTIFDFRVFCTELRDFRDSRRERSPDFTIFLCFGQCFSS 431	מין המשממים במשממים במ	. 326 PQQVAFPSEAELPDOKQLKYTBELLRHVAPGLHLELRGPOLWARRWGKCKVYWEV 380 	263 LLFQSANPAPPPPAGDIGGLPPLLDITIYYRGKMYYQEQVDDSRCVLAYQPLDPAVAE 320	270 YLSPSPSACTAVQEPSPGALDVTIMYKGRTVLQKVVGHPSCTFLYGPPDPAVRATD 325	223 -ACAGGEGLAGELYGW-AVETTESSERPQFALITYGEAAAPESPHQAEP 269 .	153 DSTEGVAAAALTQVDLDLLQSVLQHCNISALGSQPTLWAHTGDALPEDALLLPGQ 207	YALSRELCWREGPGTDQTEAEAPAAVPPQGGPPGPFLAH	62 AWAVARGRWPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKV 121	2 ALAPERAAPRVLFGEWLLGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLSEADARIFK 61 	Match 28.6%; Score 780; DB 2; Length 491; Local Similarity 38.5%; Pred. No. 3.5e-40; Les 208; Conservative 60; Mismatches 180; Indels 92; Gaps 17;	RESULT 1 S56753 Nucleic Acids Res. 23, 2137-2146, 1995 A;Reference number: S56753 A;Reference number: S56753 A;Accession: S56753 A;Accession: S56753 A;Status: preliminary; nucleic acid sequence not shown A;Status: preliminary; nucleic acid sequence not shown A;Cross-references: EMBL:UZ0338; NID:9790580; PIDN:AAA86995.1; PID:9790581 C;Superfamily: lymphoid-specific interferon regulatory factor

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interferon regulatory factor-6 homolog - African clawed c;Species: Xenopus laevis (African clawed frog) C;Date: 21-Aug-1998 #sequence_revision 21-Aug-1998 #text C;Accession: JC6520 R;Hatada, S.; Kinoshita, M.; Takahashi, S.; Nishihara, R;Hatada, S.; Kinoshita, M.; Takahashi, S.; Nishihara, R
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A;Reference number: JC6520; MUID:98086218; PMID:9426249
A;Contents: Embryo
A;Accession: JC6520
A;Molecule type: mRNA
A;Residues: 1-459 <HATT>
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C;Superfamily:
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                                                                                                                                                                                                                                                                                                                                                                                                                 HKVYALSRELCWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGD
                                                                                                                                                       LRYTEELLRHVAPGLHLELRGPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDT
                                                                                                                                                                                                                       VTIMYKGRTVLQKV-VGHP-SCTFLYGPPDPAVRATD-----PQQVAFPSPAELPDQKQ
EMFTGDSTRSFDSGSIRLQISIPD-IKDNIVSHLKHL
                              EGTQREGVSSLDSSDLDLCLSSANSLYDDIECFLMEL
                                                            KLFCVETFLSDLISHQKGIITKQPPYEIYLGFGEEWPDGKYKERKLIIVQIIPIVARMII
                                                                                PIFDFRVFFQELVEFRARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCRVHL
                                                                                                                         KLFTSRLLDVMDRGLILEVSGHAIYAIRLCQCKVYW---SGPCSPSPITPN-FIERQKRV
                                                                                                                                                                                       IQFYYRGKEMGQTMTVSNPQGCRLFYGDLGPMPNQEELFGPITLEQVRFPGTEQIVNEKQ
                                                                                                                                                                                                                                                      ----PEQTWPKTEPQEMEVPPTSGPADFFSSP---EMWISSLPMT------DLE
                                                                                                                                                                                                                                                                                   GELYGWAVETTPSPGPQPAAL--TTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALD
                                                                                                                                                                                                                                                                                                                                                                                                                                                 FKAWAVETGKYQEG--
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27.1%;
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Pred. No. 1
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RESULT 4 S57837

lymphoid-specific interferon regulatory factor - mouse
N;Alternate names: Pip PU.1 interaction partner
C;Species: Mus musculus (house mouse)
C;Date: 28-Oct-1995 #sequence revision 03-Nov-1995 #text_change 2
C;Accession: S57837; S57838; T49359
C;Accession: S57837; S57838; T49359
R;Matsuyama, T.; Grossman, A.; Mittruecker, H.W.; Siderovski, D.P.
Nucleic Acids Res. 23, 2127-2136, 1995
A;Title: Molecular cloning of LSIRF, a lymphoid-specific member of A;Reference number: S57836; MUID:95334364; PMID:7541907
A;Accession: S57837
A;Status: preliminary; nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-450 cMAT1:
A;Cross-references: EMBL:U20949; NID:9972947; PIDN:AAA75316.1; PI #text_change member D.P.; of. 29-Sep-1999 the Kiefer, interferon regula

Kawakami

A;Cross-references: EMBL:U20949; NID:g972947; PIDN:AAA75316.1; A;Note: the nucleotide sequence was submitted to the EMBL Data A;Note: only a part of the coding sequence is given R;Matsuyama, T.; Grossman, A.; Mittruecker, H.; Siderovski, D.; submitted to the EMBL Data Library, June 1994

D.;

Kawakami,

Kimura,

Н

PID:g972948 Library,

February T.,

factor

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A; Description: Molecul;
A; Reference number: S5;
A; Accession: S57838
A; Status: preliminary
A; Molecule type: mRNA
interferon consensus sequence-binding protein - mouse (;Species: Mus musculus (house mouse) C;Species: Mus musculus (house mouse) C;Date: 12-Oct-1990 #sequence_revision 12-Oct-1990 #text_change 29-Sep-1999 C;Accession: A35861 R;Driggers, P.H.; Ennist, D.L.; Gleason, S.L.; Mak, W.H.; Marks, M.S.; Levi, Proc. Natl. Acad. Sci. U.S.A. 87, 3743-3747, 1990 A;Title: An interferon gamma-regulated protein that binds the interferon-indu A;Reference number: A35861; MUID:90251633; PMID:2111015 A;Accession: A35861 MUID:90251633; PMID:2111015 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-424 cDRI> A;Cross-references: GB:M32489; NID:g194088; PIDN:AAA37878.1; PID:g309326
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Genes Dev. 9, 1377-1387, 1995
A;Title: Pip, a novel IRF family member, is a lymphoid-specific, A;Reference number: I49359; MUID:95317607; PMID:7797077
A;Accession: I49359
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Matches 130
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                                                                                                                                                                                                                                                                                                                                                                                           RARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCR
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28.1%;
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Pred. No. 9.5e-16;
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transcription factor ISGF3 gamma chain - human NyAlternate names: alpha-interferon-responsive transcription factor C;Species: Homo sapiens (man) C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 29-C;Accession: A45017
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A45017
                                                                                                                                     A;Molecule type: mRNA
A;Residues: 1-393 «VEA»
A;Residues: 1-393 «VEA»
A;Cross-references: GB:M87503; NID:g184652; PIDN:AAA58687.1;
A;Experimental source: HeLa cells
A;Note: sequence extracted from NCBI backbone (NCBIP:108663)
A;Note: part of this sequence was confirmed by protein sequence;Superfamily: lymphoid-specific interferon regulatory factor C;Keywords: DNA binding; transcription factor
                                                                                                                                                                                                                                                                                                   Mol. Cell. Biol. 12, 3315-3324, 1992
A;Title: Subunit of an alpha-interferon-responsive transcription A;Reference number: A45017; MUID:92334329; PMID:1630447
A;Accession: A45017
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Best Local Sim:
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Matches 120
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WVVEQVESGQFPGVCWDDTAKTMFRIPWKHAGKQDFREDQDAAFFKAWAIFKGKY-----
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                                                                 Score 328.5; DB 2;
Pred. No. 6.2e-13;
9; Mismatches 179;
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C;Species: Homo Burnamere revision to the first sequence revision to the first sequence revision to the first sequence revision. Accession: A45064.

R;Weisz, A.; Marx, P.; Sharf, R.; Appella, E.; Driggers, P.H.; Ozato, R;Weisz, A.; Marx, P.; Sharf, R.; Appella, E.; Driggers, P.H.; Ozato, R; Biol. Chem. 267, 25599-25596, 1992

J. Biol. Chem. 267, 25599-25596, 1992

A;Title: Human interferon consensus sequence binding protein is a negration. A45064; MUID:93094284; PMID:1460054

A;Reference number: A45064
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A;Note: sequence extracted from NCBI backbone (NCBIP:120312)
C;Superfamily: lymphoid-specific interferon regulatory facto
C;Keywords: DNA binding; transcription regulation
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A; Status: preliminary; 1
A; Molecule type: nucleic
A; Residues: 1-425 <WEI>
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C;Species: Homo sapiens (man)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGEAAAPESPHQAE----PYLSPSPSACTAVQEPSPG-ALDVTIMYKGRTVLQKVVGHPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGDLLLQAVQQSCLAD 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ----KEGDTGGPAVWKTRLRCALNKSSEFKEVPERGRMDVAEPYKVYQLLPPGIVSGQP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                            - KEGDKAEPATWKTRLRCALNKSPDFEEVTDRSQLDISEPYKVYRIVPEEDQKCK
                                                                                                                                                                                                                                              CWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGD
                              -LVTGYTTY-DAHHSAF-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 306; DB 2;
Pred. No. 1.6e-11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -----RQHSSVS-----SERKEEED----AMQNCTLSP 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches 174;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 425;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                         -- SOMVISFYYGGKLVG
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A;Title: Possible involvement of the transcription factor ISGF3gamma A;Reference number: S71599; MUID:95145714; PMID:7843405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N;Alternate names: interferon-stimulated gene facto (;Species: Mus musculus (house mouse) C;Date: 10-Apr-1996 #sequence_revision 24-Oct-1998 C;Accession: JC4592; S71599
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: EMBL:U51992; NID:g1263309; PIDN:AAC52494.1; A;Experimental source: L929 cells
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Suhara, W.; Yoneyama, M.; Yonekawa, H.;
Biochem. 119, 231-234, 1996
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                                                                                                                                                                                                                                                                                                                                        17 WLLGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLSE-ADARIFKAWAVARGRWPPSSR
QPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRTVLQKVVGHP 308
                                                                                        QSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAVETTPSPGP
                                                                                                                                    RNQKSPCKRSISCVSPEREENMENGRTNGVVNHSDSGSNIGG-----
                                                                                                                                                                                                                         ----HKDGDIGHPAVWKTRLRCALNKSSEFEEVPERGRMDVAEPYKVYRILPAGTLPNQP
                                                                                                                                                                                                                                                                     GGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSG-DPADPHKVY-----ALSREL
                                                                                                                                                                                                                                                                                                                 WIVEQVESGHFPGVCWDDAAKTMFRIPWKHAGKQDFREDQDAAIFKAWALFKEK-----
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                                                                                                                                                                                                                                                                                                                                                                                                       64;
                                                                                                                                                                                                                                                                                                                                                                                                                         Score 259.5; DB 2
Pred. No. 9.6e-09;
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Asylocides (Interferon regulator factor - mouse (fragments)
C;Bpecies: Mus musculus (house mouse)
C;Bate: 28-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 17-Mar-1999
C;Accession: S57836
R;Matsuyama, T; Grossman, A.; Mittruecker, H.W.; Siderovski, D.P.; Kiefer, F.;
Nucleic Acids Res. 23, 2127-2136, 1995
A;Title: Molecular cloning of LSIRF, a lymphoid-specific member of the interfero A; Reference number: S57836; MUID:95334364; PMID:7541907
A; Accession: S57836
A;Status: preliminary; nucleic acid sequence not shown
A;Molecule type: mRNA
A;Residues: 1-203 <MAT>
A;Coss-references: EMBL:U11692
C;Superfamily: lymphoid-specific interferon regulatory factor
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                                                                                                                                                               A;Cross-references: EMBL:AL133220;
A;Experimental source: strain A3(2)
C;Genetics:
A;Note: SCC75A.05c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       probable multi-domain regulatory protein [imported] C;Species: Streptomyces coelicolor C;Date: 21-Jul-2000 #sequence_revision 21-Jul-2000 #C;Accession: T50568
R;Redenbach, M.; Kieser, H.M.; Denapaite, D.; Eichner Mc1 Microbial Profession Fig. 7 2007 Profession Pro
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A; Residues: 1-1334 < RED>
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21, 77-96, 1996
                                  Conservative
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34.8%; Pred
34.8%; 22;
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Pred. No. 6.7e-
22; Mismatches
                                                              Score 183; DB 2;
Pred. No. 0.0015;
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C.Accession: 152998
R;Cha, Y.; Sims, S.H.; Romine, M.F.; Kaufmann, M.; Deisseroth, DNA Cell Biol. 11, 605-611, 1992
A;Title: Human interferon regulatory factor 1: intron/exon organization of the complex of the c
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A;Cross-references: GDB:127269; OMIM:147575
A;Map position: 5q31.1-5q31.1
A;Introns: 29/3; 63/1; 122/1; 138/3; 182/1; 223/1; 239/3; 285/1
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C;Species: Homo sapiens (man)
C;Date: 02-Jul-1996 #text_change 05-Nov-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PTPTPGRSRTPGWTSGPGPASGAGAASGTDVASGAGAASGPDPASGPASGPAVAPGSGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PHKVYALSRELCWREGP----
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                                                                                                                                                                                                  PAGDKGDLLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLP---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <RES>
s: GB:L05072; NID:g184648;
                                                              -AGELYGWAVETTPSPGPQPAALTTGEAAAPESPHQAEPYLSPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6.4%; Score 176; DB 2; 23.6%; Pred. No. 0.00089;
                                                                                                                                   YMODLEVEOALT
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   SPMPSTSEATTDEDEEGKLPEDIMKLLEQS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches 108;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PIDN: AAA36043.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 325;
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                                                                                                                                                                                                                                                                                                                                  LAHTHAGLQAPGPLPA
                                                                                                                                   PALSPCAVSSTLPDWH
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244
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168 174 112 125 63

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R;Cha, Y.; Deisseroth, A.B.
J. Biol. Chem. 269, 5279-5287, 1994
A;Title: Human interferon regulatory factor 2 gene
A;Reference number: A53340; MUID:94148994; PMID:81
A;Accession: A53340
A;Status: not compared with conceptual translation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Date: 14-Feb-1992 #sequence_revision 15-Aug-1997 #text_change 20-Sep-1999 (C;Accession: S16501; A38587 R;Marchant, J.K.; Linsenmayer, T.F.; Gordon, M.K. Proc. Natl. Acad. Sci. U.S.A. 88, 1560-1564, 1991 A;Title: cDNA analysis predicts a cornea-specific collagen. A;Reference number: A38587; MUID:91142213; PMID:1705041
                                                                                                                              N;Alternate names: transcription repressor IRF2
C;Species: Homo sapiens (man)
C;Date: 03-May-1994 #sequence revision 03-May-1994
C;Accession: A53340; S06894; A32828
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A;Residues: 1-174,'X',176-233,'X',235-344,'X',346-408,'X',410-499,'X',501-876,'X',878-1
A;Cross-references: GB.M60172
C;Superfamily: unassigned collagens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    collagen, cornea-specific - chicken
C;Species: Gallus gallus (chicken)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             뭉
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A;Accession: A38587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Molecule type: mRNA
A; Residues: 1-1146 < MAR>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGGPGLPAGELYGWAVETTPS--PGPQPAALTTGE--AAAPESP-----HQAEPYLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 --APAGDKG---DLLLQAV--QQSCLADHLLTASWG--ADPVPTKAPGEGQEGLPLTGAC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTSRGGSRQIQGPPGPPGPPGPPGPGGSSSQEIQQYVADYLKSDNVRHYLTG---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PGPRGFTG--EPGEPGLPGFSSHGGTVTMQGPPGPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PGKVIS----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ARGPPGPSGDTGEPGLTGPQGPPGLPGNPGRPGAK------GEPGA 387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ARGRWPPSSRGG-----GPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPAD 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PSPSACTAVQEPSPGALDVTIMYKGRTVLQKVVGHPSCTFLYGPPDPAVRATDP-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QQGPRGEKGSAVEVVIETIKTEVSSLASQMLSDLQGRAGPPGPPGPPGESVQGLP---GP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PHKVYALSRELCWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAP-GP--LP- 173
                                                                                                                                                                                                                                                                                                                                           YQSFASSVSTTSVLYQELLNMLQREEIRQYLVGPRGPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDF-----
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                                                                                                                                                                                                                                                                                                                                                                                                                                 /QGPPG--PPGPPGIL--TTADGKNFDFAELATRVMSYVTSSSDH 678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ---AFPSPAELPDQKQLRYTEELL----RHVAPGLHLELRGP 364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PSGPPGRPGSSVSTSETFVSGPPGPPGPPGPKGDQGE----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 176; DB 2; Length 1146; Pred. No. 0.0033;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                              2 gene. Int
PMID:8106512
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -----GPPGPKGDAGVPGAPGIP
                                                                                                                                                          #text_change
                                                                  Intron-exon
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RGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRD---NSGDPADPHKVYALSRELC--

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A;Cross-recevery fujita, T.; Mayamore.
R;Harada, H.; Fujita, T.; Mayamore.
Cell 58, 729-739, 1989
Cell 58, 729-739, 1989
A;Title: Structurally similar but functionally distinct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: GDB:127270; OMIM:147576
A;Map position: 4q35.1-4q35.1
C;Keywords: DNA binding; transcription regu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: mRNA
A;Residues: 1-68,'I',70-96,'R',98-130,'ER',133-152,'GF',155-163,'A',165-188,'D',190-210,
8,'T',310-313,'PAPV',318-319,'TP',322-349 <HAR>
A;Cross-references: GB:J03168; NID:g198455; PIDN:AAA39333.1; PID:g293676
A;Experimental source: clones 2 and 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;ACCEBBION. COLOR A;ACCEBBION. A;ACCEBBION. A;Residues: 1-57, R',59-349 <ITO>
A;Residues: 1-57, R',59-349; NID:g33966; PII
A;Cross-references: EMBL:X15949; NID:g33966; PII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Itoh, S.; Harada, H.; Fujita, T.; Mimura, T.; Tar
Nucleic Acids Res. 17, 8372, 1989
A;Title: Sequence of a cDNA coding for human IRF-2.
A;Reference number: S06894; MUID:90045964; PMID:281
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                                      á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           맑
                                                                                                                                                                        C; Keywords: DNA binding;
                                                                                                                                                                                                              A; Molecule type: mRNA
A; Residues: 1-325 < MAR>
                                                                                                                                                                                                                                                             A; Accession:
                                                                                                                                                                                                                                                                                      A; Reference number: S04075;
                                                                                                                                                                                                                                                                                                      Nucleic Acids Res. 17, 3292, A; Title: Sequence of a cDNA
                                                                                                                                                                                                                                                                                                                                                R; Maruyama, M.; Fujita,
                                                                                                                                                                                                                                                                                                                                                                A;Residues: 1-325 <MI2>
                                                                                                                                                                                                                                                                                                                                                                                         A;Status: not compared with A;Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Accession: B31595
                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Title: Regulated expression of a gene encoding A; Reference number: A90903; MUID:88311092; PMID:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cell 54, 903-913,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R; Miyamoto, M.; Fujita, T.; Kimura, Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C; Species: Homo sapiens (man)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Accession:
                                                                                                         Query Match
Best Local (
                                                                                                                                                                                              Cross-references: EMBL:X14454
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  11
                                            17 WLLGEISSGCYEGLQWLDEARTCFRVPWKHFARK--DLSEADARIFKAWAVARGRWPPSS
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                                                                                                                                                                                                                                                             S04075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  B31595;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                           Similarity
WLEMQINSNQIPGLIWINKEEMILEIPWKHAAKHGWDINK-DACLFRSWAIHTGRY----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNS 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RMRMRPWLEEQINSNTIPGLKWLNKEKKIFQIPWMHAARHGWDVEKDAPLFRNWAIHTGK
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                                                                                       Conservative
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                                                                                                                                                                          transcription regulation
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                                                                                   6.1%; Score 166; DB 2;
23.4%; Pred. No. 0.0036;
tive 33; Mismatches 106
                                                                                                                                                                                                                                                                                    coding for human IRF-1.
MUID:89263736; PMID:2726461
                                                                                                                                                                                                                                                                                                                                                                                                                  conceptual translation
                                                                                                                                                                                                                                                                                                                                 1989
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 167; DB 2;
Pred. No. 0.0034;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Maruyama, M.; Harada, H.; Sudo, Y.; Miyata,
                                                                                                                                                                                                                                                                                                                                                                                                                                                        coding a nuclear factor,
PMID:3409321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PMID:2813069
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PIDN:CAA34073.1; ra, Y.; Maruyama,
                                                                                         106;
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                                                                                                                             Length 325;
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                                                                                         Indels
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M.; Furia, A.; Miyata,
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Search completed: June 18, 2003, 12:48:17 Job time : 24 secs
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;Residues: 1-329 <MIY>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Accession: A31595
Miyamoto, M.; Fujita, T.; Kimura, Y.; Maruyama, M.; Harada, H.; Sudo, Y.; Miyata, T.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rerferon regulatory factor 1 - mouse
Species: Mus musculus (house mouse)
;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 05-Nov-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 6.1%; Score 166; DB 2; Length 329; Best Local Similarity 21.6%; Pred. No. 0.0036;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Accession: A31595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ell 54, 903-913, 1988
Title: Regulated expression of a gene encoding a nuclear factor, IRF-1, that specificate Reference number: A90903; MUID:88311092; PMID:3409321
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Post-processing: Minimum Match 0%
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Listing first 45 summaries
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Maximum DB seq length: 200000000
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Total number of hits satisfying chosen parameters:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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1: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1980.DAT:*

2: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1981.DAT:*

3: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1982.DAT:*

4: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1983.DAT:*

5: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1984.DAT:*

6: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1985.DAT:*

7: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1986.DAT:*

8: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA1986.DAT:*

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Gapop 10.0 , Gapext 0.5
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2731
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//SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1986 DAT:

//SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1987 DAT:

//SIDS2/gcgdata/geneseq/geneseqp-emb1/AA198 DAT:

//SIDS2/gcgdata/geneseq/geneseqp-emb1/AA199 DAT:

//SIDS2/gcgdata/geneseq/geneseqp-emb1/AA2000 DAT:

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Copyright (c) 1993 - 2003 Compugen Ltd.
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Result No.	Score	Query Match	Query e Match Length DB	ВВ	ID	Description
1	2731	100.0	503	20		Modified Interfero
. 2	2695	98.7	503	22	AAE09329	Human intracellula
ω	1567.5	57.4		20	AAY15104	Chimeric protein I
4	458	16.8		22	AAM78986	Human protein SEQ
5	454	16.6		21	AAY87783	Human IRF3 protein
6	450	16.5		20	AAY15102	Modified Interfero
7	446	16.3		23	ABP42913	Human ovarian anti
8	376	13.8		17	AAR99426	Murine lymphocyte
9	361.5	13.2		17	AAR99427	Human lymphocyte s
10	357	13.1		19	AAW38426	Human multiple mye

ALIGNMENTS

1999: 99WO-CA00314	07-APR-1999;
1999.	14-OCT-1999
37-A1.	WO9951737-A1.
/note= "Wild type Ser replaced with Asp"	WITEC-CITTETETICE
	X: 00 - 2: 6
	Misc-dif
Location/Onalifiers	Kov.
ic.	Synthetic.
piens.	Homo sapiens.
activate; homology; cytokine gene; target cell.	activate
DNA binding; transcriptional activity; viral infection; HIV infection;	DNA bind
activator; promoter; ISRE regulatory element; stimulation; influenza;	activato
post-translational modification; sendai virus; cancer treatment; herpes;	post-tra
threonine; carboxy terminus; aspartic acid; mutant; phosphorylation;	threonin
Interferon regulatory factor: IRF-7; transactivation domain; serine	Interfer
Modified Interferon Regulatory Factor-7 protein (IRF-7).	Modified
2000 (first entry)	25-JAN-2000
3,	AAY15103;
AAY15103 standard; Protein; 503 AA.	ID AAY15103

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RESULT 2
AAE09329
ID AAE0
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AC AAE0
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                  AAE09329;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present protein sequence is the interferon regulatory factor-7 (IRF-7) 2D protein, that is modified in the transactivation domain serine and threonine residues in the carboxy terminus are modified
                                                  AAE09329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VYALSRELCWREGPGTDQTEAEAPAAVPPPQGGPPGFFLAHTHAGLQAPGPLPAPAGDKG
                                                  standard;
                                                                                                                                                                                                                            QRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSLDSSDLDL
                                                                                                                                                                                                                                                                                           LRGPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVFFQELVEFRAR
                                                                                                                                                                                                                                                                                                                                                                    LQKVVGHPSCTFLYGPPDPAVRATDPQQVAFPSPAELPDQKQLRYTEELLRHVAPGLHLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DLLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAV
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                                                                                                                                                                                                      QRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSLDSSDLDL
                                                                                                                                                                                                                                                                                                                                            LQKVVGHPSCTFLYGPPDPAVRATDPQQVAFPSPABLPDQKQLRYTEELLRHVAPGLHLE
                                                                                                                                                                                                                                                                                                                                                                                                                 ETTPSPGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRTV
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                                                Protein;
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Pred. No. 1.6e-197;
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Matches
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New genes encoding intracellular regulatory regulating cell division and proliferation (particularly for treating cancer, infections or metabolic abnormalities
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
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                                                                                                                                                                                                                                                                           VYALSRELCWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKG
            LRGPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVFFQELVEFRAR
                                                                                                                                     ETTPSPGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRTV
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                                                                             LOKVVGHPSCTFLYGPPDPAVRATDPQQVAFPSPAELPDQKQLRYTEELLRHVAPGLHLE
                                                                                                                 EKTPSPGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRTV
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99.0%;
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Pred. No. 8.4e-195;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Interferon regulatory factor; IRF; chimeric protein; serine; threonine; carboxy terminus; amino terminal domain; aspartic acid; phosphorylation; post-translational modification; sendai virus; cancer treatment; herpes; PRDI/PRDIII; promoter; ISEE regulatory element; stimulation; activate; activator; DNA binding; transcriptional activity; viral infection; proteasome mediated degradation; influenza; HIV infection; cytokine gene;
The present sequence is the chimeric protein comprising, residues from the modified amino-terminal domain of interferon regulatory f
                                                                                                                                                         07-APR-1998;
                                                                                                                                                                              07-APR-1999;
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                              Claim 11; Fig 13; 93pp; English
                                                   Carboxy-terminus modified highly active factor proteins used for the treatment of
                                                                                                                                                                                                   14-OCT-1999.
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                                                                                                                 Hiscott J,
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519
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                                                                                                                                                                                                                                                                                                                                                /note= "Corresponds to IRF-3 protein"
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RESULT 4
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KW vise
KW tise
KW nerv
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(first entry) SEQ ID

AAM78986 standard; Protein;

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Human protein 06-NOV-2001 AAM78986;

NO 1648

Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; humanomodulatory; cancer; leukaemia; nervous system disorder; arthritis; inflammation.

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Best Local
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YKAYLODL
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                                                                 LLPNSGHGPDGE-
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                                                                                                 GQDLSAGRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSLDSSDLDLCLSSANSL---YDD
                                                                                                                                                                                                          PGWPVTLPDPGMSLTDRGVMSYVRHVLSCLGGGLALWRAGQWLWAQRLGHCHTYWAVSEE 413
                                                                                                                                                                                                                                           DPQQVAFPSPA-ELPDQKQLRYTEELLRHVAPGLHLELRGPQLWARRMGKCKVYWEVG--
                                                                                                                                                                                                                                                                             TPFPNLGPSENPLKRLLVPGEEWEFEVTAFYRGRQVFQQTISCPEGLRLVG-SEVGDRTL
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                                                                                                                                                                                                                                                                                                                                                                                     ETTPS----
                                                                                                                                                                                                                                                                                                                                                                                                                       DLLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KAWAVARGRWPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VYALSRELCWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          542 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                      GPPGSASPSTPACLLPRNCDTPIFDFRVFFQELVEFRARQRRGSPRYTIYLGF
                                                                                                                                                                                                                                                                                                                PSACTAVQEPSPG---ALDVTIMYKGRTVLQKVVGHPSCTFLYGPPDPAVRAT
530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   57.4%;
59.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 1567.5; DB 20
Pred. No. 7.7e-110;
8; Mismatches 116;
                                                                                                                                       -VPKDKEGGVFDLGPFIVDLITFTEGSGR-SPRYALWFCV
                                                                                                                                                                                                                                                                                                                                                                                     PGPQPAALTTGEAAAPESPHQAEPYLSPS----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                   latches 141;
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27-APR-2000;
20-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                              production of other cytokines in other cell populations. The polymerides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiseis regulating activity, tissue growth factor activity, immunomodulatory activity and activity, inhibin activity and may be useful in the diagnosis and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tang
Zhao
                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to polynucleotides (AAKS1456-AAKS3435) a encoded polypeptides (AAM78323-AAM83302) that exhibit activity cytokine, cell proliferation or cell differentiation or which production of other cytokines in other cell populations. The
                                                                                                                                                                                                                                                                                                                                                                             (AAM80020) are omitted as the relevant pages were missing at the time of publication.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Xue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                          Note: Records for SEQ ID NO 2110 (AAK52581),
                                                                                                                                                                                                                                                                                                                                                                                                                                   treatment of cancer, leukaemia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-NOV-2000;
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                                                                                                                                                                                                                                                                                                                                                                                            (AAM80020) are omitted
                                                                                                                                                                                                                                                                                                                                                                                                                        inflammation.
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)B; AAK52119.
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SCTFLYGPPDPAVRATDPQQVAFPSPA-ELPDQKQLRYTEELLRHVAPGLHLELRGPQLW
                                                                                 EDILDELL-GNMVLAPLP
                                                                                                       SCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAVETTPSPGPQ
                                                                                                                                                                                                                  WPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKVYALSRELC
                             PLRSPSLDNPTP--
                                                     PAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEP-SPGALDVTIMYKGRTVLQKVVGHP
                                                                                                                                     -NSGVG----DFSQPDTSPDTNGG-
                                                                                                                                                                                                                                                                      PRVLFGEWLLGEISSGCYEGLOWLDEARTCFRVPWKHFARKDLSEADARIFKAWAVARGR
                                                                                                                                                                                                                                           PRIL--PWLVSQLDLGQLEGVAWVNKSRTRFRIPWKHGLRQDAQQEDFGIFQAWAEATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 3986; 6221pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wang D,
Yang Y,
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2000US-0598075.
2000US-0620325.
2000US-0654936.
2000US-0663561.
2000US-0693325.
2000US-0728422.
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Wejhrman
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Wang J,
                                                                                                                                                                                                                                                                                                            16.8%;
28.0%;
                          ----FPNLGPSENPLKRLLVPGEEWEFEVTAFYRGRQVFQQTISCP
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, Zhang J, Ren
n T, Goodrich R;
                                                                                                                                                                                                                                                                                                64;
                                                                                                                                                                                                                                                                                                Score 458; DB 22;
Pred. No. 2.2e-26;
4; Mismatches 191;
                                                                                                                                                                                       -WKRNFRSALNRKEGLRLAEDRSKDPHDPHKIYEFV----
                                                                                                                                                                                                                                                                                                                                                                                                                                   nervous system disorders, arthritis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             that exhibit activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (AAK51456-AAK53435) and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zhou
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R, Wang
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                                                                                                                                  GSTSD-----TQ
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ng ZW;
                                                                              -SLAVAPEPCPQ
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RESULT 5
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                                                Matches
                                                           Query Match
Best Local Similarity
                                                                                               Sequence
                                                                                                                                This invention describes a novel polynucleotide (I) encoding human ADA2. The products of the invention have cytostatic activity and can be used for gene therapy. (I) is useful for treating cancer; as primers and probes for isolating full length cDNA and genes having similar biological activity. This sequence represents the human IRF3 protein
                                                                                                                       described
                                                                                                                                                                                                            Disclosure;
                                                                                                                                                                                                                                                                       N-PSDB; AAA39474.
                                                                                                                                                                                                                                                                                                          Moore
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                                                                                                                                                                                                                                                                                                                                                                                 30-AUG-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human IRF3 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-AUG-2000
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                                                                                                                                                                                                                                 New polynucleotide encoding human AD2 is useful for treating cancer and for isolating cDNAs and genes having similar biological activity
                                                                                                                                                                                                                                                                                  WPI; 2000-338491/29
                                                                                                                                                                                                                                                                                                                                                                                                         25-APR-2000
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                                                                                                                                                                                                                                                                                                                                 (HUMA-) HUMAN
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                                                141;
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                      PRVLFGEWILGEISSGCYEGLOWLDEARTCFRVPWKHFARKDLSEADARIFKAWAVARGR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AQRLGHCHTYWAVSEELLPNSGHGPDGE----
PRXL--PWLVSQLDLGQLEGVAWVNKSRTRFRIPWKHGLRQDAQQEDFGIFQAWAEATGA
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                                                                                                                      in the method
                                                                                               427 AA;
                                                Conservative
                                                                                                                                                                                                            Column
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                                                                                                                                                                                                            59-62;
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                                                             16.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          unidentified
                                                                                                                         of the
                                                                                                                                                                                                         54pp; English
                                                63;
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                                               Score 454; DB 21;
Pred. No. 4.3e-26;
3; Mismatches 192
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                                                                       DB 21;
                                                192;
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                                                                       Length 427;
                                                Indels
                                                108;
                                                Gaps
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WPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKVYALSRELC 129

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RESULT 6
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                                                                                                                                                                                                                                                                                                                                          DNA
                                                                                                                                                                                                                                                                                                                                                       Interferon regulatory factor; IRF-3; transactivation domain; serine; threonine; carboxy terminus; aspartic acid; mutant; phosphorylation; post-translational modification; sendai virus; cancer treatment; herpes; activator; promoter; PRDI/PRDIII; ISRE regulatory element; stimulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAY15102 standard; Protein; 427
                                                                                                                                       Misc-difference
                                                                                                                                                              Misc-difference
                                                                                                                                                                                        Misc-difference
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                                                                                                                                                                                                                                                                             Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                       Modified Interferon
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAY15102
                      07-APR-1998;
                                               07-APR-1999;
                                                                                                  WO9951737-A1
                                                                                                                                                                                                                                           Misc-difference
(DAVI-) DAVIS-JEWISH GEN HOSPITAL MORTIMER
                                                                                                                                                                                                                                                                                                                 binding; transcriptional activity; transcriptional co-a/p300; proteasome mediated degradation; viral infection; infection; activate; cytokine gene; target cell.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AQRLGHCHTYWAVSEELLPNSGHGPDGE-----VPKDKEGGVFDLGPFIVDLITFT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PLRSPSLDNPTP-----FPNLGPSENPLKRLLVPGEEWEFEVTAFYRGROVFQQTISCP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEP-SPGALDVTIMYKGRTVLQKVVGHP
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RESULT 7
ABP42913
ID ABP4
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AC ABP4
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ABP42913 standard;

Protein;

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ABP42913;

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Matches 140
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Carboxy-terminus modified highly active forms of interferon regulatory factor proteins used for the treatment of viral infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cancer treatment or to modify a target cell of an organism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   serine and threonine residues in the carboxy terminus are modified post-translationally, by phosphorylation, following sendai virus infection. The modified IRF-3, substituted with aspartic acid, fun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present protein sequence is the interferon regulatory factor-3 (IRF-3)5D protein, that is modified in the transactivation domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKVYALSRELC
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                                                                                 ARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKKLEPWLCRVHLEGTQREGVSSLDSSDL
                                                                                                                                                               ARRMGKCKVYWEVG---
                                                                                                                                                                                                                           SCIFLYGPPDPAVRAIDPQQVAFPSPA-ELPDQKQLRYIEELLRHVAPGLHLELRGPQLW
                                                                                                                                                                                                                                                                                                                                                            SCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAVETTPSPGPQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fig 10; 93pp;
DLHIDNDHPLDLDDDQYKAYLQDL
                              DLCLSSANSL - - - YDDIECFLMEL
                                                              EGSGR
                                                                                                                               AQRLGHCHTYWAVSEELLPNSGHGPDGE
                                                                                                                                                                                                EGLRLVG-SEVGDRTLPGWPVTLPDPGMSLTDRGVMSYVRHVLSCLGGGGLALWRAGQWLW
                                                                                                                                                                                                                                                              PLRSPSLDNPTP-----FPNLGPSENPLKRLLVPGEEWEFEVTAFYRGRQVFQQTISCP
                                                                                                                                                                                                                                                                                          PAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEP-SPGALDVTIMYKGRTVLQKVVGHP
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                                                              -SPRYALWFCVGESWPQDQPWTKRLVMVKVVPTCLRALVEMARVGGASSLENT-V
                                                                                                                                                                                                                                                                                                                                                                                                                                                              -GROKPOLPT----WKRNFRSALNRKEGLRLAEDRSKOPHOPHKIYEFV----
                                                                                                                                                                                                                                                                                                                               -GNMVLAPLP
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Pred. No. 8.6e-
                                                                                                                                                              GPPGSASPSTPACLLPRNCDTPIFDFRVFFQELVEFR
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-26;
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22-AUG-2002

(first entry)

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Best Local
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                                                                                                                                                                                                                                                                                                         shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and vaginitis), immune disorders (e.g., congenital and acquired immunodeficiencies, aucoimmune oophoritis, systemic hupus erythematosus), blood-related disorders (e.g., anaemia), cardiovascular disorders, respiratory disorders, neurological disorders, gastrointestinal disorders and urinary system disorders. Ovarian antigen polypeptides and polynucleotides may also be used in screening for compounds which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     treating, prognosing or preventing various ovary and/or breast-related disorders. Such conditions include ovarian cancer and breast cancer, and metastatic tumours of ovarian or breast origin, reproductive system disorders (e.g., infertility, disorders of pregnancy, anovulation, polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABP43228) and to cDNAs encoding them (ABC94131-ABC96305), and also encompasses polypeptides 90% identical and polynucleotides 95% identical to the sequences of the invention. The invention additionally relates to recombinant vectors and host cells comprising human ovarian antigen polynucleotides, antibodies against human ovarian antigens, and the use of ovarian antigen polynucleotides and polypeptides in diagnosing,
                                                                                                                             sequence represents a human ovarian antigen of the invention. Note: The sequence data for this patent did not form part of specification, but was obtained in electronic format directly
                                                                                                                                                                                                                  modulate ovarian antigen expression or activity. The polynucleotides may further be used for gene therapy, chromosome mapping, in the identification of individuals and in forensic analysis, and the polypeptides may be used as food additives or to prepare antibodies polyperides may be used as food additives or to prepare antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Isolated nucleic acid molecules encoding novel ovarian polypeptides, useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian cancer), immune disorders, cardiovascular disorders and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to 2175 novel human ovarian antigens (ABP41054-ABP41228) and to CDWAs encoding them (ABQ54131-ABQ56305), and also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ovarian cancer; breast cancer; tumour; reproductive system disorder; infertility; pregnancy disorder; anovulation; polycystic ovary syndrome; PCOS; ovarian cyst; dysmenorrhoea; endocrine disorder; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 11; SEQ ID No 4045;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            neurological diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Birse CE,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gene therapy; chromosome mapping; forensic analysis; antibody preparation; cytostatic; immunomodulatory; neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gastrointestinal disorder; urinary system disorder; drug
gene therapy; chromosome mapping; forensic analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      inflammatory condition; immune disorder; blood disorder; cardiovascular disorder; respiratory disorder; neurologi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HUMA-) HUMAN GENOME SCI INC
                                                                                                       ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                             in disease diagnosis, drug targeting and phenotyping. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ovarian antigen; ovary; ovarian; breast; cancer; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABQ55990
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16.3%;
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Score
Pred.
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446; DB 23;
No. 6e-26;
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                  Length 175;
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Local Similarity

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                                                                                   elements in DNA. Its amino acid sequence was deduced from a CDNA clone (AAT41701) isolated from a mouse spleen cDNA library. Recombinant LSIRF can be produced in transformed prokaryotic or eukaryotic host cells. LSIRF polypeptides are useful as targets for therapeutic cpds. used to regulate lymphocyte activation. By blocking LSIRF activity it is possible to suppress lymphocyte activitation in response to certain environmental stimuli.
                                                         Sequence
                                                                                                                                                                         Novel murine lymphocyte-specific interferon regulatory factor (LSIRF or ISF-3) (AAR99426) binds to interferon-stimulated reelements in DNA. Its amino acid sequence was deduced from a
                                                                                                                                                                                                                                  Claim 1; Page 47-49; 92pp; English.
                                                                                                                                                                                                                                                               proliferation
                                                                                                                                                                                                                                                                           New genes for murine lymphocyte specific interferon regulatory factor - used for modulation of lymphocyte activation and
                                                                                                                                                                                                                                                                                                                       N-PSDB; AAT41701
                                                                                                                                                                                                                                                                                                                                      WPI; 1996-477128/47
                                                                                                                                                                                                                                                                                                                                                                  Grossman A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gs snw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lymphocyte specific interferon regulatory factor; LSIRF; IRF-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-JAN-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAR99426 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                           14-APR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9632477-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Murine lymphocyte specific interferon regulatory factor
                                                                                                                                                                                                                                                                                                                                                                                              (AMGE-) AMGEN CANADA INC.
               Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      118 RHGAPWLPTLYHLPGLRAG-PVSLGGPRRRPGPGEAGTLVV------PMHLEGTHXK- 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  394 CLLPRNCDTPIFDFRVFFQ-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          334 PAELPDOKOLRYTEELLRHVAPGLHLELRGPQLWARRMGKCKVYWEVGGPPGSASPSTPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               102;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VGFLD 172
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLLPRNCDTPIFDFRVFFQGQVRPLAWGXGFKGSLGKHLPCQVLXKKSPSSELVEF----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PAXLPDQKQLRYTEELLRHVAPGLHLELRGPQXWARRMGKCKVYWEVGGPPGSASPSTPA
                                                         450 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                          96US-0611280.
95US-0422733.
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               13.8%;
28.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -LGFGQDLSAGRPKEK--
                                                                                                                                                                                                                                                                                                                                                                  Richardson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
Score 376; DB 17;
Pred. No. 3.4e-20;
6; Mismatches 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                   G
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SLVLVKLEPWLCRVHLEGTQREG
                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                       response
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RESULT 9
AAR99427
ID AAR9
XX AAR9
AC AAR9
XC AAR9
XC AAR9
XC Huma
XC Huma
XX Lymp
XX Lymp
XX Homo
5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   D
            Claim 1;
                                     proliferation
                                                 New genes for murine lymphocyte specific interferon regulatory factor - used for modulation of lymphocyte activation and
                                                                                          N-PSDB;
                                                                                                                               Grossman A,
                                                                                                                                                                                  03-APR-1996;
14-APR-1995;
                                                                                                                                                                                                                                                     17-OCT-1996.
                                                                                                                                                                                                                                                                               WO9632477-A1
                                                                                                                                                                                                                                                                                                                                               Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                               Lymphocyte specific interferon regulatory factor; LSIRF;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Human lymphocyte specific interferon regulatory factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-JAN-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAR99427;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAR99427 standard; Protein; 450
                                                                                                                                                                                                                           12-APR-1996;
                                                                                                                                                           (AMGE-)
                                                                                                       1996-477128/47
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                                                                                          AAT41706
                                                                                                                                                         AMGEN CANADA INC
           Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RARORRGSPRYTIYLGFGODLSAGRPKEKSLVLVKLEPWLCR 459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WMAPDGLYAKRICQSRIYWD--GPLAICSDRPNK----LERDQTCKLPDTQQFLSELQVF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ELRGPQLWARRMGKCKVYWEVGGPPGSAS--PSTPACLLPRNCDTPIFDFRVFFQELVEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KELTTTSPEGCRISHG---HTYDVSNLDQVLFPYP---DDNGQRKNIEKLLSHLERGLVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LQKVVGHP-SCTFLYGPPDPAVRATDPQQVAFPSPAELPDQKQLRYTEELLRHVAPGLHL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ESQAPGIPIEPSIRSAEALA--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTPSPG-PQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRTV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MMPPH--DRSW-RDYAPDQSHPEIPYQCPVTFGPRGHHWQGPSCENGCQVTGTFYACAPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAG----GPGLP-----AGELYGWAVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ----VPEGAKKGAKQLTLDDTQMAMGHPYPMTAP---YGSLPAQQVHNY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PGTDQTEAEAPAAVPPPPQGGPPGP---FLAHTHAGLQAPGPLPAPAGDKGDLLLQAVQQS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGIDKPDPPT----WKTRLRCALNKSNDFEELVERSQLDISDPYKVYRI------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSG-DPADPHKVYALSRELCWREG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QWLIDQIDSGKYPGLVWENEEKSVFRIPWKHAGKQDYNREEDAALFKAWALFKGKF----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -AHHGRPAPRFQVTLCFGEEFPDPQ-RQRKLITAHVEPLLAR 411
                                                                                                                               Matsuyama
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
           65-66; 92pp;
                                                                                                                                                                                  96US-0611280
95US-0422733
                                                                                                                                                                                                                           96WO-CA00231
                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers 163..164
                                                                                                                                                                                                                                                                                                                                  /note=
                                                                                                                                                                                                                                                                                                     "the Double Q form of additional glutamine residues 163 and 164
                                                                                                                               'n,
            English
                                                                                                                                Richardson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ----LSDC-----RLHICLYYRDILV
                                                                                                                                                                                                                                                                                                   f hLSIRF contains are residue between 4 of the Single Q
                                                                                                                                                                                                                                                                                                                                 an
                                                                                                                                                                                                                                                                                                       form"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            169
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04-DEC-1997 WO9745106-A1 Multiple myeloma oncogene 1; MUM1 protein; diagnosis; interferon regulatory factor 4;

tumour;

sapiens

Human multiple myeloma oncogene 1

(MUM-1) product.

8661-NDF-80

(first entry)

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RESULT 10
AAW38426
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel Single Q or Double Q forms of human lymphocyte-specific interferon regulatory factor (LSIRF or ISF-3) (AAR99426) bind to interferon restimulated response elements in DNA. The amino acid sequence of the Sigle Q form was deduced from a cDNA clone (AAT41706) isolated from a human lymphocyte cDNA library. Recombinant LSIRF can be produced in transformed prockaryotic or eukaryotic host cells. LSIRF polypeptides are useful as targets for therapeutic cgds. used to regulate lymphocyte activation. By blocking LSIRF
                                                                                                                                                                                                                                       AAW38426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          response to certain environmental stimuli.
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                                                                                                                                                                                                                                                                                                                  428
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26 QWLIDQIDSGKYPGLVWENEEKSIFRIPWKHAGKQDYNREEDAALFKAWALFKGKF----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          it is possible to suppress lymphocyte activitation in
                                                                                                                                                                                                                                                                                                                                                                           F-AHHGRSLPRFQVTLCFGEEFPDPQ-RQRKLITAHVEPLLARQLYYFAQQNSGHFLRGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ETTPSPG-PQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLADHLLTASWGADPVPTKAPGEGQEGLPLT-----GACAGGPGLPAGELYGWAV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EWILGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLS-EADARIFKAWAVARGRWPPSS
                                                                                                                                                                                                                                       standard; Protein; 451
                                                                                                                                                                                                                                                                                                                    DLPEHISNPEDYHRSI
                                                                                                                                                                                                                                                                                                                                                                                                                                      LWMAPDGLYAKRLCQSRIYWD--GPLALCNDRPNK----LERDQTCKLFDTQQFLSELQA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VLQKVVGHP-SCTFLYGPPDPAVRATDPQQVAFPSPAELPDQKQLRYTEELLRHVAPGLH 358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PESQAPGVPTEPSIRSAEALA------FSDC-----RLHICLYYREIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PGTDQTEAEAP--AAVPPPQGGPPGPFL-AHTHAGLQAPGPLPAPAGDKGDLLLQAVQQS 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGIDKPDPPT----WKTRLRCALNKSNDFEELVERSQLDISDPYKVYRIVPEGAKK--
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                                                                                                                                                                                                                                                                                                                                             PLDLCLSSANSLYDDI 492
                                                                                                                                                                                                                                                                                                                                                                                                        FRARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSLDSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LELRGPQLWARRMGKCKVYWEVGGPPGSAS--PSTPACLLPRNCDTPIFDFRVFFQELVE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -----LDRSW-RDYVPDQPHPEIPYQCPMTFGPRGHHWQGPACENGCQV-TGTFYACAP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              450 AA;
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Pred. No. 4.3e-19;
70; Mismatches 194;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 17;
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28-MAY-1997;

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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           provides: a method of determining a chromosomal breakpoint in a subject suffering from MM; a method of identifying a gene located in chromosome 14 that is altered by a chromosomal breakpoint detected in a subject suffering from MM; a nucleic acid probe; a method for detecting a predisposition to MM; an antisense oligonucleotide capable of hybridising to an mRNA or antisense oligonucleotide a pharmaceutical composition comprising an oligonucleotide effective in preventing overexpression of a MIMM mrotain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     in preventing overexpression of a MUM protein. Analysis of 14q+ chromosomal translocations and identification of genes altered in MM will allow: (1) the determination of chromosomal sequences involved in 14q+ translocations, the most important cycogenetic lesion associated with MM pathogenesis elucidation; (2) elucidation of specific gene lesions for MM; (3) a diagnostic method based on gene/DNA lesion; and (4) a therapeutic approach aimed at counteracting the action of abnormal gene products.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MUM-1 gene to the IgH gene as a result of t(6;14)(p25;q32) translocation is recurrent in multiple myeloma (MM). The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Determining predisposition to multiple myeloma - allows identification of MUM-1 and MUM-2 genes, and determines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dalla-Favera
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DB; AAV04017.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           al Similarity
135; Conserv
                                                       MAPDGLYAKRLCOSTIYWD--GPLALCNDRPNK----LERDQTCKLFDTQQFLSELQAF-
                   ARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSLDSSDL
                                                                                            LRGPQLWARRMGKCKVYWEVGGPPGSAS---PSTPACLLPRNCDTPIFDFRVFFQELVEFR
                                                                                                                                    ELTTSSPEGCRISHG---HTYDASNLDQVLFPYPEDNGHRKNI--
                                                                                                                                                                       QKVVGHP-SCTFLYGPPDPAVRATDPQQVAFPSPAELPDQKQLRYTEELLRHVAPGLHLE
                                                                                                                                                                                                              SQAPGVPTEPSIRSAEALA------FSDC-----RLHICLYYREILVK
                                                                                                                                                                                                                                                  TPSPG-PQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRTVL
                                                                                                                                                                                                                                                                                                                             ADHLLTASWGADPVPTKAPGEGQEGLPLT-----GACAGGPGLPAGELYGWAVET
                                                                                                                                                                                                                                                                                                                                                                                                    PGTTQTEAEAPAAVPPPPQGGPPGPFLAHTHAGLQAPGP-LPAPAGDKGDLLLQAVQQSCL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSG-DPADPHKVYALSRELCWREG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    QWLIDQIDSGKYPGLVWENEEKSIFRIPWKHAGKQDYNREEDAALFKAWALFKGKF----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EWLLGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLS-EADARIFKAWAVARGRWPPSS
                                                                                                                                                                                                                                                                                       PP--LDRSW-RDYVPDQPHPEIPYQCPMTFGPRGHHWQGPACENGCQV-TGTFYACAPPE
                                                                                                                                                                                                                                                                                                                                                                -GAKQLTLEDPOM
                                                                                                                                                                                                                                                                                                                                                                                                                                             REGIDKPDPPT----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fig 5B; 143pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        451
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                       -WKTRLRCALNKSNDFEELVERSQLDISDPYKVYRIVPEGAKK--
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a candidate human proto-oncogene,
1) (see AAV04017). Juxtaposition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 357; DB 19;
Pred. No. 9.3e-19;
                                                                                                                                                                                                                                                                                                                                                                  --SMSHPYT-MTTPYPSLPA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 451;
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                                                                                                                                    -ENLLSHLERGVVLW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MUM-1
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CC invention also relates to vectors and recombinant host cells comprising a CC nucleotide of the invention, methods of producing the novel polypeptides, cC antibodies against the polypeptides, methods of detecting the nucleotides cC or polypeptides in a sample, and methods of identifying compounds which bind to polypeptides of the invention. Although novel, many of the CC polypeptides of the invention have homology to known proteins, thereby CC giving an insight into their probable biological activities, and hence potential therapeutic applications. The polypeptides of the invention may have various activities, including cyrokine, cell proliferation or cell clifferentiation activities, stem cell growth factor activity; haematopoiesis regulatory activity, tissue growth activity; haematopoiesis regulatory activity. The polypeptide activities; chemotactic or chemokinetic activities; haemostatic, thrombotic or thrombotytic activities; receptor or ligand activities; or may be involved in oncogeness, cancer cell proteiness activities.

Depending on their

biological activities,

polypeptides

and nucleotides

0f

Sequences

ABB10981-ABB12330 represent ABA08225-ABA09574 represent

1350 novel human polypeptides, an nucleic acids encoding them. The

sequences

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RESULT 11
ABB11040
ID ABB11
XX AB11
XX ABB11
XX 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 20; Page 139; 1963pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human proteins and DNA encoding sequences useful for preventing, treating or ameliorating a medical condition in a mammalian subject e.g. arthritis and cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-FEB-2000; 2000US-0496914.
27-APR-2000; 2000US-0560875.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-JAN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (HYSE-) HYSEQ INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cytostatic; osteopathic; vasotropic; cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2001-457740/49
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activin;
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ABB11963
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     haematopoiesis regulation; tissue growth; immunomodulator; activin; inhibin; chemotaxis; chemokinesis; thrombolysis; oncogenesis; proliferation; metastasis; cancer; tunour; haematopoietic disorder; myeloid cell disorder; lymphoid cell disorder; asthma; arthritis; chronic inflammatory condition; proliferative retinopathy; atherosclerosis; coronary heart disease; arterial ischaemia; bone disorder; osteoporosis; vascular growth disorder; tissue regeneration; wound healing; infection; immune disorder; cell culture; drug screening; gene therapy; antiinflammatory; antiasthmatic; antiarthritic; haemostatic; antiarteriosclerotic; cytostatic; osteopathic; vasotropic; cardiant; virucide; antibacterial;
                                                                                                                               03-FEB-2000; 2000US-0496914.
27-APR-2000; 2000US-0560875.
                                                                                                                                                                                                                                                                                                                                                                    WO200157188-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; cytokine; cell proliferation; cell differentiation;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    proliferative retinopathy, atherosclerosis, coronary heart disease, arterial ischaemia, bone disorders (e.g., osteoporosis), and abnormal vascular growth. Polypeptides involved with tissue regeneration and repair (or nucleic acids encoding them) may be used to promote wound healing (e.g., of burns, incisions and ulcers), while those with immunomodulatory activities may be used in the treatment of viral, bacterial and fungal infections in addition to immune disorders. Polypeptides with growth factor activity may be used in cell cultures to promote cell growth. For example, such polypeptides may be used to manipulate stem cells in culture to give rise to neuroepithelial cells
                                                              (HYSE-) HYSEQ INC
                                                                                                                                                                                                                                05-FEB-2001; 2001WO-US03800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the invention are useful for preventing, treating or ameliorating medical conditions, e.g., by protein or gene therapy. Such conditions include cancers, haematopoietic disorders (e.g., myeloid or lymphoid cell disorders), chronic inflammatory conditions (e.g., asthma or arthritis),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  polypeptide of the invention.
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Liu
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Drmanac RT
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90.1%;
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Pred. No. 4.4e-18;
2; Mismatches 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                growth factor;
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BXAXAXB

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VAPEPCPQPLRSPSLDNPTP--

FQQTISCPEGLRLVG-SEVGDRTLPGWPVTLPDPGMSLTDRGVMSYVRHVLSCLGGGLAL LQKVVGHPSCTFLYGPPDPAVRATDPQQVAFPSPA-ELPDQKQLRYTEELLRHVAPGLHL

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182

LLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAVE 241

YALSRELCWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGD 181

-DFSQPDTSPDTNGG

93

AWAVARGRWPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKV 121 AWAEATGAYVP----GRDKPDLPT----WKRNFRSÄLNRKEGLRLAEDRSKDPHDPHKI 65

TTPSPGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEP-SPGALDVTIMYKGRTV 300

-DPGPP-----SLA 120

----FPNLGPSENPLKRLLVPGEEWEFEVTAFYRGRQV

359 174 밁 8

15 62

122

66

Matches 119; Best Local Query Match

Similarity

11.7%; 26.0%;

Score 320; DB 22; Pred. No. 4.8e-16; Mismatches 176;

Length 392; Indels 112;

Gaps

Conservative

51;

Sequence

392

A A

polypeptide

techniques.

The present sequence represents a novel human

the invention.

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94

----TQEDILDELL-GNMVLAPLP-----

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CC haematopoiesis regulatory activity; tissue growth activity; chamunomodulatory activity; activity is inhibin-related activities; chemotactic or chemokinetic activities; haemostatic, thrombotic or chemotactic or chemokinetic activities; haemostatic, thrombotic or chimomodulatory activity; activities; haemostatic, thrombotic or chemotactic or chemokinetic activities; or may be conditions on their biological activities, polypeptides and nucleotides of the invention are useful for preventing, treating or ameliorating medical conditions, e.g., by protein or gene therapy. Such conditions include conditions, e.g., by protein or gene therapy. Such conditions include conditions, e.g., by protein or gene therapy. Such conditions include conditions, chronic inflammatory conditions (e.g., asthma or arthritis), proliferative retinopathy, atherosclerosis, coronary heart disease, crollar growth. Bone disorders (e.g., osteoporosis), and abnormal conditions (e.g., of burns, incisions and ulcers), while those with communomodulatory activities may be used in the treatment of viral, conditions (e.g., of burns, incisions and ulcers), while those with conditions (e.g., of burns, incisions and ulcers), while those with conditions (e.g., of burns, incisions and ulcers), while those with conditions (e.g., of burns, incisions and ulcers), while those with conditions (e.g., of burns, incisions and ulcers), while those with conditions (e.g., of burns, incisions and ulcers), while those with conditions (e.g., of burns, incisions and ulcers), while those with conditions (e.g., of burns, incisions and ulcers), while those with communomodulatory activities may be used in cell cultures to promote cell growth. For example, such polypeptides may be used to conditions to be used to augment or replace cells damaged by illness, commune disease or accidental damage. The polypeptides and nucleotides contoinmune disease or accidental damage. The port burns, and in drug coresing terming the burns and in drug coresing terming the burns and in drug cor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nucleotide of the invention, methods of producing the novel polypeptides, antibodies against the polypeptides, methods of detecting the nucleotides or polypeptides in a sample, and methods of identifying compounds which bind to polypeptides of the invention. Although novel, many of the polypeptides of the invention have homology to known proteins, thereby giving an insight into their probable biological activities, and hence potential therapeutic applications. The polypeptides of the invention may have various activities, including cytokine, cell proliferation or cell differentiation activities, stem cell growth factor activity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequences ABB10981-ABB12330 represent 1350 novel human polypeptides, and sequences ABA08225-ABA09574 represent nucleic acids encoding them. The invention also relates to vectors and recombinant host cells comprising a nucleotide of the invention, methods of producing the novel polypeptides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 20; Page 287-288; 1963pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        e.g. arthritis and cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human proteins and DNA encoding sequences useful for preventing, treating or ameliorating a medical condition in a mammalian subject
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RESULT 13
AAM79970
ID AAM79
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AC AAM79
XX
DT 06-NO
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                                                 The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to cytckine, cell proliferation or cell differentiation or which may induce production of other cytckines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytckine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activity and may be useful in the diagnosis and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; cytokine; cell proliferation; cell differentiation; vaccine; peptide therapy; stem cell growth factor; haemato; tissue growth factor; immunomodulatory; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human protein SEQ ID NO 3616.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAM79970 standard; Protein;
                                                                                                                                                                                          Claim 20; Page 397; 6221pp; English.
                                                                                                                                                                                                                    Nucleic acids encoding polypeptides with useful in diagnosis and gene therapy -
                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-APR-2000;
20-JUN-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nervous
                           inflammation.
                                         reatment of cancer, leukaemia,
                                                                                                                                                                                                                                                               N-PSDB;
                                                                                                                                                                                                                                                                                                                                                            (HYSE-) HYSEQ INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   03-FEB-2000;
              Note: Records for SEQ
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  AAM80020) are
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DB; AAK53103.
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                                                                                                                                                                                                                                                                                                    , Liu C,
, Wang D,
Yang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        system disorder; arthritis; inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  F-----QELVEFRARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCRVHLEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WRAGQWLWAQRLGHCHTYWAVSEELLPNSGHGPDGE-----VPKDKEGGVFDLGPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ARVGGASSLENT-VDLHISNSHPLSLTSDQYKAYLQDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TQREGVSSLDSSDLDLCLSSANSL---YDDIECFLMEL 499
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                                                                                                                                                                                                                                                                                                                                                                                                                            2000US-0560875.
2000US-0598075.
2000US-0620325.
2000US-0654936.
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                                                                                                                                                                                                                                                                                                                                                                                        2000US-0728422
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2000US-0693325.
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 omitted as the relevant pages
                                                                                                                                                                                                                                                                                                    Drmanac RT,
Wang J, Zh
Wejhrman T,
              ID NO 2110 (AAK52581),
                                                                                                                                                                                                                                                                                         C RT, F.J, K.J, Zhang J, K.T. Goodrich F
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ng J, Ren F,
nch R;
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                                         nervous system disorders,
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                                                                                                                                                                                                                                    cytokine-like activities
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from
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the sequence listing
               (AAK52582) and 3666
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Wang,
                                          arthritis and
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Best Local S
Matches 119
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RVGGASSLENT-VDLHISNSHPLSLTSDQYKAYLQDL
                                                          IVGSLGPPDLITFTEGSGR-SPRYALWFCVGESWPQDQPWTKRLVMVKVVPTCLRALVEM
                                                                                                                                                                                                                                       VAPEPCPQPLRSPSLDNPTP-----FPNLGPSENPLKRLLVPGEEWEFEVTAFYRGRQV
                                                                                                                                                                                                                                                                 TTPSPGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEP-SPGALDVTIMYKGRTV
                                                                                                                                                                                                                                                                                                                             LLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAVE
                                                                                                                                                                                                                                                                                                                                                                                      YALSRELCWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGD
                                                                                                                                                                                                                                                                                                                                                                                                                                             AWAVARGRWPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKV 121
                             TQREGVSSLDSSDLDLCLSSANSL --- YDDIECFLMEL
                                                                                    F-----QELVEFRARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCRVHLEG
                                                                                                                     WRAGQWLWAQRLGHCHTYWAVSEELLPNSGHGPDGE----
                                                                                                                                                ELRGPQLWARRMGKCKVYWEVG-----
                                                                                                                                                                            FQQTISCPEGLRLVG-SEVGDRTLPGWPVTLPDPGMSLTDRGVMSYVRHVLSCLGGGLAL
                                                                                                                                                                                                                                                                                                                                                                                                                   AWAEATGAYVP----GRDKPDLPT----WKRNFRSALNRKEGLRLAEDRSKDPHDPHKI
                                                                                                                                                                                                         LOKVVGHPSCTFLYGPPDPAVRATDPQQVAFPSPA-ELPDQKQLRYTEELLRHVAPGLHL
                                                                                                                                                                                                                                                                                                 -----TQEDILDELL-GNMVLAPLP
                                                                                                                                                                                                                                                                                                                                                          YEFV----NSGVG----DFSQPDTSPDTNGG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     392 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11.7%;
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Pred. No. 4.8e-16;
1; Mismatches 176;
                                                                                                                                                  -GPPGSASPSTPACLLPRNCDTPIFDFRVF
                              499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 392;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels 112;
                                                                                                                                                                                                                                                                                                ---DPGPP-----SLA
                                                                                                                     -VPKDKEGGVFDLGPF
                                                                                                                                                                                                                                                                                                                                                          -GSTSD
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                                                            343
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RESULT 14 AAW74784 ID AAW74 XX 02-OCT-1997; 07-MAR-1997; 07-MAR-1997; 07-MAR-1997; Misc-difference Human; secreted protein; testis; tumour; fusion protein; cancer; central nervous diagnosis; neurodegenerative disease. AAW74784; Homo sapiens. Human secreted protein encoded AAW74784 06-MAR-1998; 11-SEP-1998 WO9839448-A2 Misc-difference standard; (first entry) 97US-0038621 97US-0040161 97US-0061060 98WO-US04493 175 Location/Qualifiers label= unknown _abel= unknown Protein; by gene 55 system; foetal clone

seizure;

HPRCU93

-0040162

07-MAR-1997; 07-MAR-1997;

11-APR-1997; 11-APR-1997; 11-APR-1997; 11-APR-1997; 23-MAY-1997; 23-MAY-1997; 23-MAY-1997;

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                                                                                                                                                                                                                            This sequence represents a secreted human protein encoded by the nucleic caid molecule designated Gene 54 from the human cDNA clone HPRCU93 CC (deposited as clone ATCC 97899 and ATCC 209045).

CC The gene can be used to generate fusion proteins by linking to the gene CC to a human immunoglobulin Fc portion (e.g. AAV59502) for increasing the CC stability of the fused protein as compared to the human protein only. CC The invention relates to 186 novel genes and their fragments (nucleic acid sequences: AAV59511-V59812; amino acid sequences AAW74731-W75026) CC which are useful for preventing, treating or ameliorating medical CC conditions e.g. by protein or gene therapy. Also, pathological CC conditions e.g. by protein or gene therapy. Also, pathological CC conditions can be diagnosed by determining the amount of the new CC polypoptides in a sample or by determining the presence of mutations in CC polypoptides, based on which tissues are described for each of the 186 CC polynucleotides, based on which tissues they are most highly expressed in CC (see AAV59511 for described uses).
                                                                                                                                                                   Query Match
Best Local S
Matches 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-AUG-1997;
22-AUG-1997;
22-AUG-1997;
22-AUG-1997;
22-AUG-1997;
22-AUG-1997;
22-AUG-1997;
22-AUG-1997;
22-AUG-1997;
22-AUG-1997;
22-AUG-1997;
22-AUG-1997;
25-SEP-1997;
05-SEP-1997;
05-SEP-1997;
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22-AUG-1997;
22-AUG-1997;
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22-AUG-1997;
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Kyaw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New isolated human genes and the secreted polypeptide(s) they encode - useful for diagnosis and treatment of e.g. cancers, neurological disorders, immune diseases, inflammation or blood disorders
                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Page 573-574; 721pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bednarik DP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ruben
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v H,
v SM,
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DB; AAV59565.
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                            231
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 93
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                                                                                                                                                                                  Similarity
                                                     APWDEKD---NDVDEEDEEDE-LDQSQHHVPIQDTFPFLNINGSPMAPASVGNCSVGNCS
                                                                               PAGDKGDLLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPL----TGACAGGPGL
                                                                                                    PADPHKVYALSRELCWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPA
                         PAGELYGWAVETTPSPGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALD
                                                                                                                                                                                                                            373
                                                                                                                                                                     Conservative
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9705-0056880.
9705-0056881.
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9705-0056886.
9705-0056886.
9705-0056889.
9705-0056893.
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9705-0056909.
9705-0056909.
9705-0056900.
9705-0056901.
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97US-0057761.
97US-0058785.
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Fischer CL, Florence
Li Y, Moore PA, Ni
Soppet DR, Young PE, Y
----PKTEPLEMEVPQ--APIQPFYSSPELWISSLPMT---
                                                                                                                                                                                 9.5%;
                                                                                                                                                                  Score 259.5; DB 19;
Pred. No. 1.6e-11;
59; Mismatches 165;
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e KA, Gr
fi J, Ol;
Yu GL,
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Matches 45
                                                                            Sequence
                                                                                                    The present sequence is a polypeptide encoded by one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included: 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors.
                                                                                                                                                                                                                                                                                                                                                                                           New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures
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ALTERNATIVE PRODUCTS: 4 ISOFORMS; A (SHOWN HERE), B/BETA, C/GAMMIAND D/H; ARE PRODUCED BY ALTERNATIVE SPLICING. -TISSUE SPECIFICITY: EXPRESSED PREDOMINANTLY IN SPLEEN, THYMUS, AN PERIPHERAL BLOOD LEUKOCYTES. -SIMILARITY: BELONGS TO THE IRF FAMILY. SUBCELLULAR LOCATIVE: AND THE IRF FAMILY. SET OF THE STATE OF THE STA | QUENCE FROM N.A. (ISOFORM A). SUBJESPLEEN; OSSMBAN A., Nicholl J., Antonio L., Luethy R., Suggs S., theriand G.R., Mak T.W.; bmitted (OCT-1996) to the EMBL/GenBank/DDBJ databases. DUINNE=97459673; PubMed=9315633; BILINE=97459673; PubMed=9315633; BILINE=9903279; PubMed=5757(1997). DLINE=9903279; PubMed=5757(1997). Cell Biol. 17:5748-5757(1997). DLINE=9903279; PubMed=9786932; DLINE=9903279; PubMed=9786932; DLINE=9903279; PubMed=9786932; DLINE=9903279; PubMed=9786932; DLINE=9903279; PubMed=9786972; WC., Moore P.A., LaFleur D.W., Tombal B., Pitha P.M.; haracterization of the transcription activation of interferon A tential role in the transcription activation of interferon A ness"; WC., Moore P.A., LaFleur D.W., Tombal B., Pitha P.M.; bacterial role in the transcription activation of interferon A ness"; WC., Moore P.A., LaFleur D.W., Tombal B., Pitha P.M.; bacterial role in the transcription activation of interferon A ness"; WC., Moore P.A., LaFleur D.W., Tombal B., Pitha P.M.; bacterial role in the transcription activation of interferon A ness"; WC., Moore P.A., LaFleur D.W., Tombal B., Pitha P.M.; bacterial role in the transcription activation of interferon A ness"; WC., Moore P.A., LaFleur D.W., Tombal B., Pitha P.M.; bacterial role in the transcription activation of interferon A ness ". SUMMILITY: EXPRESSED PREDOMINANTLY IN THE Q PROMOTERS AND IN THE Q PROMOTER (QP) OF EBV NUCLEAR ANTICEN-1 (EBNA1). - ALTERNATIVE PRODUCED BY ALTERNATIVE SPLICING. - TISSUE SPECIFICITY: EXPRESSED PREDOMINANTLY IN SPLEEN, THYMUS, AN PERIPHERAL BLOOD LEUROCYTES. - SIMILARITY: BELONGS TO THE IRF FAMILY. - SIMILARITY: SIMILARITY: BELONGS TO THE INTERNATIVE SPLICING AS it content is in not send an email to license agreement (See http://www.isb-sib.ch/annother | mmalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. BI_TaxID=9606; BI_TaxID= | mo sapiens (Human). Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; mmalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. BI_TaxID=9606; BI_TaxID=1990 | mmo sapiens (Human). 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Best Local
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Transcription regulation; D.
DNA BIND 11 122
SEQUENCE 457 AA:
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the European Bioinformatics Institute. Then
use by non-profit institutions as long a
modified and this statement is not removed.
entities requires a license agreement (See l
or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRINTS; PR00267; INTFRNREGFCT PRODOM; PD002355; IRF; 1.
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Pfam; PF00605; IRF; 1.
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MGD; MGI:1859212; Irf7
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een the Swiss Institute of Bioi
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                                                        LELRGPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVFFQELVEFR
                                                                                                  TVLQKVVGHPSCTFLYGPPDPAVRATDPQQVAFPSPAELPDQKQLRYTEELLRHVAPGLH
                                                                                                                                 QVEAVPSPRPQQPALT
                                                                                                                                                AVETTPSPGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGR
                                                                                                                                                                                            GDLLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELY-GW
                                                                                                                                                                                                                                                                                                          TVLQAVVGHPRCVFLYSPMAPAVRTSEPQPVIFPSPAELPDQKQLHYTETLLQHVSPGLQ
                                                                                                                                                                                                                      KVYELSRELGSTVGPATENREEVSLSNALPTQGVSPGSFLARENAGLQTPSPL--LSSDA
                                                                                                                                                                                                                                                                WAVARGRWPPSG-VNLPPPEAEAAERRERRGWKTNFRCALHSTGRFILRQDNSGDPVDPH
                                                                                                                                                                                                                                                                                   WAVARGRWPPSSRGGGPPPEAETA---ERAGWKTNFRCALRSTRRFVMLRDNSGDPADPH
                                           LELRGPSLWALRMGKCKVYWEVGSPMGTTGPSTPPQLLERNRHTPIFDFSTFFRELEEFR
                                                                                                                                                                           GDLLLQVLQYS---
                                                                                                                                                                                                                                         KVYALSREICWREGPGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDK
                                                                                                                                                                                                                                                                                                                                                                                                457 AA; 51222 MW;
                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE=Spleen;
                                                                                                                                                                                                                                                                                                                                                                57.2%;
                                                                                                                                                                          -HILESESGADPVPPQAPGQEQDRV---
                                                                                                                                                                                                                                                                                                                                                                                                            DNA-binding; Nuclear protein; TRYPTOPHAN PENTAD REPEAT.
                                                                                                                                                                                                                                                                                                                                                     36;
                                                                                                                                                                                                                                                                                                                                                     Score 1562; DI
. Pred. No. 1.7e.
36; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                 30B102C668F56142
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IRF3_CH
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Best Local (
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"CIRF-3, a new member of the interferon regulatory factor (IRF)
family that is rapidly and transiently induced by dsrna.";
Nucleic Acids Res. 23:2117-2146(1995).
-i- FUNCTION: MAY ACTIVATE TRANSCRIPTION BY COMPLEX FORMATION WITH
OTHER TRANSCRIPTIONAL FACTORS, POSSIBLY MEMBERS OF THE STAT
FAMILY. BINDS SPECIFICALLY TO THE IFN-STIMULATED RESPONSE ELEMENT
(ISRED BUT NOT TO THE IRF-1 BINDING SITE PRD-I.
-i- SUBCELLULAR LOCATION: Nuclear.
-i- SUMILARITY: BELONGS TO THE IRF FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            between the Swiss Institute of Bioinformatics and the E the European Bioinformatics Institute. There are no rest use by non-profit institutions as last some and this statement is not removed. Usage by an entities requires a license agreement (See http://www.isborsend an email to license@isb-sib.ch).
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01-NOV-1997 (Rel. 35, Last annotation updat
Interferon regulatory factor 3 (IRF-3).
Gallus gallus (Chicken).
                                                                                                                                                                                                                                                                                                                                                                                         SMART; SM00348; IRF; 1. PROSITE; PS00601; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                         PRINTS; PR00267; INTFRNREGFCT ProDom; PD002355; IRF; 1.
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HSSP; P15314; 1IF1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q90643;
01-NOV-1997
                                                                                                                                                                                                                                                                                                                                                        Transcription regulation; DNA-binding; Nuclear protein; DNA_BIND 14 112 TRYPTOPHAN PENTAD REPEAT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR001346; IRF.
Pfam; PF00605; IRF; 1.
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                                                                                                                                                                                                                                                                                      Local Similarity
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                                                                                                                                                                                                   ALDSEGDAQKLRFGPWLLNAVSSGLYRGLCWIDPDRRIFRIPWKHNARKDVTSSDVBIFK
                                                                                                                                                                                                                                   ALAPERAAPRVLFGEWLLGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLSEADARIFK
DSTEGVAAAALTQVDLDLLQSVLQHCNISAL----GSQPTLWAHTGDALPEDALLLPGQ
                          -APGPLPAPAGDKGDL-LLQAVQQSCLADHLLTASWGADPVPTKAPGEG--QEGLPLTG-
                                                                 YAVA-
                                                                                               YALSRELCWREGPGTDQTEAEAPAAVPPPQ--GGP-----
                                                                                                                                     AWAKASGRY---
                                                                                                                                                                   AWAVARGRWPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKV
                                                                                                                                                                                                                                                                                                                                      491 AA;
                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                    28.6%;
                                                                                                                                                                                                                                                                    60;
                                                                                                                                                                                                                                                                                    Score 780; DB 1;
Pred. No. 6.6e-38;
                                                                                                                                   -EGNAEDPAKWKTNFRCALRSTHMFMLLEDRSKCNDDPHKV
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                                                               SGVPNDRGSGGPVAGALQQQPQLLLNHHDLALENTPT
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  (See http://www.isb-sib.ch/announce/
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InterPro; IPR001346; IRF.
Pfam; PF00605; IRF; 1.
PRINTS; PR00267; INTERNREGECT.
ProDom; PD002355; IRF; 1.
SMART; SM00348; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IRF5_HUMAN S
Q13568; Q9BQF0;
01-NOV-1997 (Rel
                                                                                                                                                                                     EMBL; U51127; AAA96056.1; -.
EMBL; BC004201; AAH04201.1; -.
EMBL; BC004139; AAH04139.1; -.
                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN the European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by and
                                        Transcription regulation;
DNA_BIND 16 118
DOMĀIN 142 149
                                                                                                                                                                                                                                            entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                Strausberg R.;
Submitted (MAF
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Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-NOV-1997 (Rel. 35, Created)
15-JUN-2002 (Rel. 41, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Interferon regulatory factor 5 (IRF-5).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HUMAN
  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                  Submitted (MAR-2001) to the EMBL/GenBank/DDBJ-!- SUBCELLULAR LOCATION: Nuclear.-!- SIMILARITY: BELONGS TO THE IRF FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (APR-1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Grossman A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                            CONFLICT
                                                                                                                                                                           HSSP; P23906;
                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE=Kidney;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=9606;
                                                                                PROSITE; PS00601;
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SEQUENCE OF 323-413 FKUM, MEDIINE=99020108; PubMed=9803267;
MEDIINE=99020108; PubMed=9803267;
Bellingham J., Gregory-Evans K., Gregory-Evans C.Y.;
Bellingham J., Gregory-Evans K., Gregory-Evans (IRF3) to chromoson "Mapping of human interferon regulatory factor 3 (IRF3) to chromoson 19q13.3-13.4 by an intragenic polymorphic marker.";
Ann. Hum. Genet. 62:231-234(1998).
-i- FUNCTION: MAY ACTIVATE TRANSCRIPTION BY COMPLEX FORMATION WITH OTHER TRANSCRIPTIONAL FACTORS, POSSIBLY MEMBERS OF THE STAT OTHER TRANSCRIPTION BY COMPLEX FORMATION WITH
                                                                                                                                                                                                                      MEDLINE=96102173; PubMed=8524823; Au W. W.-C., Moore P.P.A., Lowther W. W., Juang Y.-T., Pith Au W. W.-C., Moore f. P.A., Lowther W. W., Juang Y.-T., Pith "Identification of a member of the interferon regulatory family that binds to the interferon-stimulated response activates expression of interferon-induced genes."; Proc. Natl. Acad. Sci. U.S.A. 92:11657-11661(1995).
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TISSUE SPECIFICITY: EXPRESSED CONSTI
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                                                   EGSGR-SPRYALWFCVGESWPQDQPWTKRLVMVKVVPTCLRALVEMARVGGASSLENT-V
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                                                                                                                                                                   ARRMGKCKVYWEVG---
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                                                                                                                                                                                                        EGLRIVG-SEVGDRTLPGWPVTLPDPGMSLTDRGVMSYVRHVLSCLGGGLALWRAGQWLW
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15-JUL-1998
15-JUL-1998
30-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             use by non-profit instatution. The moved. Usage by and for commercial modified and this statement is not removed. Usage by and for commercial modified and this statement is not removed. Usage by and for commercial modified and this statement (See http://www.isb-sib.ch/announce/
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STRAIN-C57BL/6J, TISSUE-Lymph node;
STRAIN-C57BL/6J, TISSUE-Lymph node;
Grossman A., Kondo S., Antonio L., Mak T.W.;
Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the European Bioinformatics Institute. There are no restuse by non-profit institutions as long as its content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -!- SUBCELLULAR LOCATION: Nuclear.
-!- SIMILARITY: BELONGS TO THE IRF FAMILY.
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Mammalia; Eutheria; Rodentia;
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InterPro; IPR001346; IRF.
Pfam; PF00605; IRF; 1.
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HSSP; P23906; 1
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SM00348; IRF; 1.
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L----APPSGNPAGFRQLLPEVLEPGPLASSQPP--TEPLLPDLLISPHMLPLT----
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                            YGWAVETTPSPGPQ-----PAALTTGEAAAPESPHQAEPYL----SPSPSACTAVQEP
                                                                                        AGDKGDLLLQAVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGEL
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497 AA;
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29.2%;
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Pred. No. 8.7e-19
8; Mismatches 18
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Sciurognathi; Muridae;
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Hakem R., Grossman A., Antonio L., Suggs S., Mak T.W.;
Hakem R., Grossman A., Antonio L., Suggs S., Mak T.W.;
Submitted (NOV-1996) to the EMBL/GenBank/DDBJ databases
-i- FUNCTION: MAY ACTIVATE TRANSCRIPTION BY COMPLEX FORMATION
OTHER TRANSCRIPTIONAL FACTORS, POSSIBLY MEMBERS OF THE STA
FAMILY. BINDS SPECIFICALLY TO THE IFN-STIMULATED RESPONSE
(ISRE) BUT NOT TO THE IRF-1 BINDING SITE PRD-I (BY SIMILAR
-i- SUBCELLULAR LOCATION: Nuclear.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
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P70671;
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                                                                                                                                                                                                                                                                          SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                   SMART; SM00348; IRF;
                                                                                                                                                                                                                                                                                                                                                                                                       PRINTS; PR00267; INTERNREGECT.
ProDom; PD002355; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro; IPR001346; IRF. Pfam; PF00605; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HSSP; P23906; 2IRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entities requires a license agreement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                    PROSITE; PS00601; IRF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MGD; MGI:1859179; Irf3
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ARGRWPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKVYALS
                                                                                                        ERAAPRVLFGEWLLGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLSEADARIFKAWAV
                                                     ETPKPRIL--PWLVSQLDLGQLEGVAWLDESRTRFRIPWKHGLRQDAQMADFGIFQAWAE
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(Rel. 35, Last seq
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                                                                                                                                                              Conservative
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                                                                                                                                                                                                                                                                       46852 MW;
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Rodentia;
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Last annotation update)
factor 3 (IRF-3)
                                                                                                                                                           56;
                                                                                                                                                              Score 438; DB 1;
Pred. No. 1.7e-18;
6; Mismatches 182
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P97431;
15-JUN-2002
Transcription regulation; DNA-binding; Nuclear protein.
DNA_BIND 9 111
TRYPTOPHAN PENTAD REPEAT.
SEQUENCE 467 AA; 53106 MW; 68CCAA90680FEDC8 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN-BALB/c; TISSUE-Colon; Grossman A., Mittrucker H.W., Antonio L., Mak Submitted (CCT-1996) to the EMBL/GenBank/DDBJ Submitted (CCT-1996) to the EMBL/GenBan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOUSE
                                                                                    SMART; SM00348; IRF; 1.
PROSITE; PS00601; IRF;
                                                                                                                                    InterPro; IPR001346; IRF.
Pfam; P500605; IRF; 1.
PRINTS; PR00267; INTERNREGECT
PRODOm; PD002355; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                          entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                            modified and this statement is not removed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                    EMBL; U73029; AAB36714.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus (Mouse)
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L5-JUN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                      European Bioinformatics Institute. The by non-profit institutions as long
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUBCELLULAR LOCATION: Nuclear (Potential). SIMILARITY: BELONGS TO THE IRF FAMILY.
                                                                                                                                                                                                                                               MGI:1859211; Irf6
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15-JUL-1998
15-JUN-2002
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014896;
               This
                                   Submitted (OCT-2001) to the EMBL/GenBank/DDBJ-!- SUBCELLULAR LOCATION: Nuclear (Potential).-!- SIMILARITY: BELONGS TO THE IRF FAMILY.
                                                          Strausberg R.;
Submitted (OCT-2001)
                                                                                                                                                                                                                               Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                      HUMAN
                                                                                   TISSUE=Placenta;
                                                                                                 SEQUENCE FROM N.A.
                                                                                                                         Submitted
                                                                                                                                    Grafham
                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                       Submitted
                                                                                                                                                                                    Grossman
                                                                                                                                                                                              SEQUENCE FROM
                                                                                                                                                                                                                  NCBI_TaxID=9606;
                                                                                                                                                                                                                                                         Homo sapiens
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            SWISS-PROT entry is copyright.
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18 (Rel. 36, 1
12 (Rel. 41, 1
1 regulatory
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SEP-1997) to
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   Institute
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Primates;
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27.7%; Pred. No. 2.5e-18;
Live 72; Mismatches 211;
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factor 6 (IRF-6)
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Best Local
IRF4 MOUSE STANDARD; PRT; 450 AA. (064287; Q660802; 01-NOV-1997 (Rel. 35, Created) 01-NOV-1997 (Rel. 35, Last sequence update) 15-JUN-2002 (Rel. 41, Last annotation update) Interferon regulatory factor 4 (IRF-4) (Lymphocyte specific regulatory factor) (LSIRF) (NF-EM5) (PU.1 interaction partne (Transcriptional activator PIP).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     use by non-profit institutions as long modified and this statement is not remove entities requires a license agreement (so or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SMART; SM0348; IRF; 1.

PROSITE; PS00601; IRF; 1.

Transcription regulation; DNA-binding; Nuclear TrypTOPHAN PENTAGO DNA BIND 9 111

TRYPTOPHAN PENTAGO
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InterPro; IPR001346; IRF.
Pfam; PF00605; IRF; 1.
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BC014852;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ·QVC-----SIINPGSTGSAPWD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            53129 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15.8%;
27.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   72;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              utions as long as its content is in no way is not removed. Usage by and for commercial agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 4.8e
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 431; DB 1;
Pred. No. 4.8e-18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7E28F5E0F5BA4053
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                                                                                                                                                                                                                                    499
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 467;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                           -LIEROKKVKLFC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   , 88
                                                      interferor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 8
                                                                                                                                                                                                                                                                                              466
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                                                                                                                                                                                                                                                                  407
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Query Match
Best Local S
Matches 130
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                                                                                                                                                                                                                                        DNA BIND
VARSPLIC
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; U34307; AAA75283.1; --
EMBL; U11692; AAA75309.1; --
EMBL; U20949; AAA75316.1; --
EMBL; U20949; AAA75317.1; --
EMBL; U20949; AAA75317.1; --
EMBL; U20949; AAA75317.1; --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entities
or send a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entropean Bioinformatics Institute. There are no restuse by non-profit institutions as long as its content modified and this statement is not removed. Usage by and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic Acids Res. 23:2127-2136(1995).

-i- FUNCTION: TRANSCRIPTIONAL ACTIVATOR. BINDS TO THE I STIMULATED RESPONSE ELEMENT (ISRE) OF THE MHC CLASS BINDS THE IMMUNOGLOBULIN LAMBDA LIGHT CHAIN ENHANCE WITH PU.1. PROBABLY PLAYS A ROLE IN ISRE-TARGETED S TRANSDUCTION MECHANISMS SPECIFIC TO LYMPHOID CELLS.
-i- SUBCELLULAR LOCATION: Nuclear.
-i- ALTERNATIVE PRODUCTS: 2 ISOFORMS; 1 (SHOWN HERE) AN PRODUCED BY ALTERNATIVE SPLICING. THEY ONLY DIFFER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Genes
[2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eisenbeis C.F., Singh H., Storb Ü.; "Pip, a novel IRF family member, is a lymphoid-specific, PU.1-dependent transcriptional activator."; Genes Dev. 9:1377-1387(1995).
                                                                                                                                                                                                                                                                                                                                                              PRINTS; PR00267; INTFRNREGFCT ProDom; PD002355; IRF; 1. SMART; SM00348; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A. STRAIN=C57BL/6, ar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=BALB/c;
MEDLINE=95317607; PubMed=7797077;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         interferon regulatory factor stimulated response element
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Molecular cloning of LSIRF, a lymphoid-specific member of the interferon regulatory factor family that binds the interferonstimulated response element (ISRE).";
                                                                                                                                                                                                                                                                                                                                                                                                                                          MGD; MGI:1096873; Irf4.
InterPro; IPR001346; IRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mak T.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=95334364; PubMed=7541907;
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                                                                                                                                                                                                                                                                                                   Alternative
                                                                                                                                                                                                                                                                                                                                             PROSITE; PS00601; IRF;
                                                                                                                                                                                                                                                                                                                                                                                                                           Pfam; PF00605; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus
                                                                                                                                                                                                                                                                                                                        Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OR ABSENCE OF A GLUTAMIC ACID RESIDUE.
TISSUE SPECIFICITY: LYMPHOID CELLS.
INDUCTION: NOT INDUCED BY INTERFERONS.
SIMILARITY: BELONGS TO THE IRF FAMILY.
                                                                                                                                                          130;
                                   75
                                                                            26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       F., Kawakami T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             an
                                                                                                                                                                               Similarity
                   RGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSG-DPADPHKVYALSRELCWREG
                                                                         QWLIDQIDSGKYPGLVWENEEKSVFRIPWKHAGKQDYNREEDAALFKAWALFKGKF----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           requires a license agreement (S
an email to license@isb-sib.ch).
REGIDKPDPPT----
                                                                                                                  EWILGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLS-EADARIFKAWAVARGRWPPSS
                                                                                                                                                                                                                                      165
450 AA;
                                                                                                                                                        13.8%;
ilarity 28.1%;
Conservative 6
                                                                                                                                                                                                                                                                                                 splicing.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Grossman A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and
                                                                                                                                                                                                                                        125
165
51577
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Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    129/SvJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Richardson
WKTRLRCALNKSNDFEELVERSQLDISDPYKVYRI---
                                                                                                                                                                                                                                          MW;
                                                                                                                                                                                                                                                                                                                    DNA-binding; Nuclear protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mittruecker H.-W.,
                                                                                                                                                          66;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ISRE)
                                                                                                                                                                                                                                          MISSING (IN ISOFORM); SFD94CA6C453869C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE=Spleen;
                                                                                                                                                        Score 376; DB 1;
Pred. No. 6.3e-15;
6; Mismatches 172
                                                                                                                                                                                                                                                                                  TRYPTOPHAN PENTAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C.D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    There are no restrictions ng as its content is in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .-W., Siderovski
Taniguchi T., Yo
                                                                                                                                                                                                                                                                 ISOFORM
                                                                                                                                                                                                                                                                                  REPEAT
                                                                                                                                                                                                                                          M 2).
CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TO THE INTERFERON-
HC CLASS I PROMOTER
ENHANCER, TOGETHER
                                                                                                                                                                                              Length
                                                                                                                                                          Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Yoshinaga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            D.P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2; AF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a collaboration
                                                                                                                                                          94;
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                                                                                                                                                          Gaps
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IRF4
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                                                                                                                         Grossman A., Mittrucker H.W., Nicholl J., Suzuki A., Chung S., Antonio L., Sugga S., Sutherland G.R., Siderovski D.P., Mak T.W., "Cloning of human lymphocyte-specific interferon regulatory factor (hLSIRF/hIRF4) and mapping of the gene to 6p23-p25.", Genomics 37:229-233(1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
1nterferon regulatory factor 4 (IRF-4) (Lymphocyte specific interferon regulatory factor) (NP-EM5) (Multiple myeloma oncogene 1).
IRF4 OR MUM1.
                                                                                                                                                                                                                                                                                                                "Deregulated expression of MUM1 gene by t(6;14)(p25;q32) translocation in multiple myeloma.";
Submitted (JUL-1996) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IRF4_HUMAN STI
Q15306; Q99660;
Q1-NOV-1997 (Rel.
    -
                                                                                                                                                                                                                                                                                                                                                                                                     Corradini P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE=Spleen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAMOH
                                                                 <del>:</del>
                                                                                    -
                                                                                                                                                                                                                                                          TISSUE=Skin;
                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                               Dalla-Favera R.;
                                                                                                                                                                                                                                                                                                                                                                                                                           Iida S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=97079690;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (Human).
SUBCELLULAR LOCATION: Nuclear.
ALTERNATIVE PRODUCTS: 2 ISOFORMS; 1 (SHOWN HERE) AND PRODUCED BY ALTERNATIVE SPLICING. THEY ONLY DIFFER IN OR ABSENCE OF A GLUTAMIC ACID RESIDUE.
TISSUE SPECIFICITY: LYMPHOID CELLS.
                                                                                                 WITH PU.1. PROBABLY PLAYS A ROLE TRANSDUCTION MECHANISMS SPECIFIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              134
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                    Butler M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RARQRRGSPRYTIYLGFGQDLSAGRPKEKSLVLVKLEPWLCR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLADHLITASWGADPVPTKAPGEGQEGLPLTGACAG----GPGLP----AGELYGWAVE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -AHHGRPAPRFQVTLCFGEEFPDPQ-RQRKLITAHVEPLLAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ELRGPQLWARRMGKCKVYWEVGGPPGSAS--PSTPACLLPRNCDTPIFDFRVFFQELVEF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LQKVVGHP-SCTFLYGPPDPAVRATDPQQVAFPSPAELPDQKQLRYTEELLRHVAPGLHL
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                                                                                                                                                                                                                                                                                                                                                                                                   er M., Hatzivassiliou G.,
Boccadoro M., Nilsson K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPGALDVTIMYKGRTV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PubMed=8921401;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ISOFORM 1)
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                                                                                                                                                                                                                                                                           (ISOFORM 1).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -GPLALCSDRPNK----LERDQTCKLFDTQQFLSELQVF
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Chaganti I
                                                                                                      ISRE-TARGETED :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hominidae;
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EMBL; BC015752; AAH15752.1;
HSSP; P23906; 2IRF.
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Pred. No. 3.5e
73; Mismatches
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Q -> H (
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3.5e-14;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   193;
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Best Local
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                                                                                                                                                                                                                                                                                                                                                  Transcription regulation; DNA-binding; Activator; Nuclear protein.
DNA_BIND 9 110 TRYPTOPHAN PENTAD REPEAT.
SEQUENCE 425 AA; 49171 MW; 92BB8A9B77024EB2 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                     PRINTS; PR00267; INTERNREGECT.
PRODOM; PD002355; IRF; 1.
SMART; SM00348; IRF; 1.
PROSITE; PS00601; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Chicken interferon consensus sequence-binding protein (ICSBP) and interferon regulatory factor (IRF) 1 genes reveal evolutionary conservation in the IRF gene family."

Proc. Natl. Acad. Sci. U.S.A. 92:3105-3109(1995).

-i- FUNCTION: SPECIFICALLY BINDS TO THE UPSTREAM REGULATORY REGION OF TYPE I IFN AND IFN-INDUCIBLE MHC CLASS I GENES (THE INTERFER CONSENSUS SEQUENCE (ICS)). PLAYS A REGULATORY ROLE IN CELLS OF IMMUNE SYSTEM (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=95241453; PubMed=7536924;
MEDLINE=95241453; PubMed=7536924;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CHICK
                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR001346; IRF. Pfam; PF00605; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for commodified and this statement is not removed.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; L39767; AAA62159.1; -.
HSSP; P23906; 2IRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 or send
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-!- SIMILARITY: BELONGS TO THE IRF FAMILY.
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01-NOV-1997 (Rel. 35, Last sequence up
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                                                                                                                                                                                                                                                                                                       Similarity
PGPQPAALTTGEAAAPESPHQAEPYLSPSPSACTAVQEPSPG--ALDVTIMYKGRTVLQK 303
                                                                                                                                                            -----KEGDKAEPATWKTRLRCALNKSPDFEEVTDRSQLDISEPYKVYRIVPEEEQKCK
                                                                                                                                                                              RGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSG-DPADPHKVYAL--SRELCWR
                                                                                                                                                                                                                        QWLIEQIDSEQYPGLIWENEEKTMFRIPWKHAGKQDYNQEVDASIFKAWAVFKGKF----
                                                                                                                                                                                                                                                       EWLLGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLS-EADARIFKAWAVARGRWPPSS
                                                                AVQQSCLADHLLTASWGADPVPTKAPGEGQEGLPLTGACAGGPGLPAGELYGWAVETTPS
                                                                                                                             EGPG-----TDQTEAE-APAAVPPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGDLLLQ 185
                                ----CVDEYL-----GIIKRSPSPPQE-----TCRNPP-----IPDWWMQ-QPS
                                                                                                 IGVGNGSSLTDVGDMDCSPSAIDDLMKEPP
                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                       12.4%;
                                                                                                                                                                                                                                                                                         77;
                                                                                                                                                                                                                                                                                                     Score 338; DB 1;
Pred. No. 8.7e-13;
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commercial
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P23611;
                                                                                                                               Pfam; PF00605; IRF; 1.
PRINTS; PR00286; INTFINREGECT.
ProDom; PD002355; IRF; 1.
SMART; SM00348; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Bithe European Bioinformatics Institute. There are no restuse by non-profit institutions as long as its content
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Driggers P.H., Ennist D.L., Gleason S.L., Mak W.-H., Marks M.S., Levi B.-Z., Flanagan J.R., Appella E., Ozato K.; "An interferon gamma-regulated protein that binds the interferon-inducible enhancer element of major histocompatibility complex cl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-NOV-1991 (Rel. 20,
01-NOV-1991 (Rel. 20,
01-NOV-1997 (Rel. 35,
  SEQUENCE
                        Interferon induction.
DNA_BIND 9 11
                                                                          Transcription regulation; DNA-binding; Activator; Nuclear
                                                                                                                                                                                                                                                               TRANSFAC; T00402; -. MGD; MGI:96395; Icsbp.
                                                                                                                                                                                                                                                                                                                                                                           EMBL; M32489; AAA37878.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                or send
                                                                                                                                                                                                                                                                                                                                                                                                                                                         entities
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                      PROSITE; PS00601; IRF; 1.
                                                                                                                                                                                                                InterPro; IPR001346; 1
Pfam; PF00605; IRF; 1.
                                                                                                                                                                                                                                                                                                                         HSSP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mus musculus (Mouse)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUBCELLULAR LOCATION: Nuclear TISSUE SPECIFICITY: PREDOMINANTLY IN LYMPHOID INDUCTION: BY INTERFERON GAMMA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C. Natl. Acad. Sci. U.S.A. 87:3743-3747(1990)
FUNCTION: SPECIFICALLY BINDS TO THE BYTREAM REGULATORY REGION
OF TYPE I IFN AND IFN-INDUCLBLE MHC CLASS I GENES (THE INTERFE)
CONSENSUS SEQUENCE (ICS)). PLAYS A REGULATORY ROLE IN CELLS OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SIMILARITY: BELONGS TO THE IRF FAMILY.
                                                                                                                                                                                                                                                                                                                                             A35861; A35861.
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                                                                                                                                                                                                                                                                                                                         P23906;
                                                                                                                                                                                                                                                                                                                                                                                                                             an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                         requires a license agreement
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  48237 MW;
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sequence binding protein
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                        TRYPTOPHAN PENTAD REPEAT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRT;
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RESULT 14
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Best Local S
Matches 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IRTF HUMAN
Q00978;
DNA-binding proteins.";

MOL Cell. Biol. 12:3315-3324(1992).

FUNCTION: RESPONSIBLE FOR THE INITIAL STIMULATION OF INF-ALPHA-RESPONSIVE GENES. IT RECOGNIZES AND BINDS TO THE INF-SEQUENCES OF TRANGET GENES. ISGF3 PLAYS A PRIMARY ROLE IN THE TRANSMISSION OF SIGNAL FROM THE CELL SURFACE TO THE NUCLEUS.

SIGNAL FROM THE CELL SURFACE TO THE NUCLEUS.

-!- SUBUNIT: ACTIVE ISGF3 CONSISTS OF TWO COMPONENTS, A REGULATORY MULTISUBUNIT COMPLEX, ISGF3 ALPHA (COMPOSED OF STAT1 ALPHA/BETA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-APR-1993 (Rel. 25, Created)
01-APR-1993 (Rel. 25, Last sequence update)
15-JUL-1998 (Rel. 35, Last annotation update)
17-JUL-1998 (Rel. 36, Last annotation update)
18-JUL-1998 (Rel. 36, Last annotation update)
18-JUL-1998 (Rel. 35, Last annotation update)
18-JUL-1998 (Rel. 25, Last sequence update)
18-JUL-1998 (Rel. 25, Last sequence update)
18-JUL-1998 (Rel. 25, Created)
18-JUL-1998 (Rel. 25, Last sequence update)
18-JUL-1998 (Rel. 25, Last sequence upda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NEWDH
                                                                                                                                                                                                                      Veals S.A., Schindler C., Leonard D.G.B., Fu.X.-Y., Aeben
Darnell J.E. Jr., Levy D.E.;
"Subunit of an alpha-interferon-responsive transcription
related to interferon regulatory factor and Myb families
                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A., AND PARTIAL SEQUENCE MEDLINE=92334329; PubMed=1630447;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Simples 121;
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5; Mismatches 152
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the European Bioinformatics Institute. The
use by non-profit institutions as long
modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE
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HSSP; P23906; 2IRF.
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or send an email to license@isb-sib.ch).
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SUBCELLULAR LOCATION: Nuclear.

INDUCTION: BY IFN-ALPHA AND IFN-BETA. UPON STIMULATION THE REGULATORY PHOSPHORYLATED ALPHA AND BETA SUBUNITS ASSEMBLE WITH GAMMA SUBUNIT AND TRANSLOCATE FROM THE CYTOPLASM TO THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIMILARITY: BELONGS TO THE IRF FAMILY.
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                                                    QVTLNFWEESHGSSHTPQNLITVKMEQAFARYLLEQTPEQQAAILSL
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                                                                                                                                                    RLCPIPISWNAPQAPPGPGPH---
                                                                                                                                                                                               RMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVFFQELVEFRARQRRG-SPRY
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393 AA;
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ches 179;
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Best Local
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-!- FUNCTION: SPECIFICALLY BINDS TO THE UPSTREAM REGULATORY REGION
OF TYPE I IFN AND IRN-INDUCIBLE MC CLASS I GENES (THE INTERFERON
CONSENSUS SEQUENCE (ICS)). PLAYS A NEGATIVE REGULATORY ROLE IN
CELLS OF THE IMMUNE SYSTEM.
-!- SUBCELLULAR LOCATION: Nuclear.
-!- TISSUE SPECIFICITY: PREDOMINANTLY IN LYMPHOID TISSUES.
-!- INDUCTION: BY INTERFERON GAMMA.
                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; M91196; AAB63813.1; -. PIR; A45064; A45064. HSSP; P23906; 2IRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                    PROSITE; PS00601; IRF; 1.
Transcription regulation; DNA-binding; Nuclear protein; Interferon induction.
                                                                                                                                                                                                                                                                                          Pfam; PF00605; IRF; 1.
PRINTS; PR00267; INTFRNREGFCT.
ProDom; PD002355; IRF; 1.
SMART; SM00348; IRF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REVISIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Lung, and Monocytes;
MEDLINE=93094284; PubMed=1460054;
Weisz A., Marx P., Sharf R., Appella E., Driggers P.H., Ozato K.,
                                                                                                                                                                                                                                                                                                                                                                                 MIM; 601565;
                                                                                                                                                                                                                                                                                                                                                                                                    TRANSFAC; T02038; -.
Genew; HGNC:5358; ICSBP1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -!- INDUCTION: BY INTERFERON GAMMA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Schmidt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              genes.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Human interferon consensus sequence binding protein is a negative regulator of enhancer elements common to interferon-inducible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR001346; IRF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Levi B.-Z.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-JUL-1993 (Rel. 26, Created)
15-JUL-1999 (Rel. 38, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
11terferon consensus sequence binding protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Biol. Chem. 267:25589-25596(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HUMAN
8
                                  75
                                                                   12
                                                                                                   16
                                                                                                                                                        Similarity
                           RGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSG-DPADPHKYYALSRELCWREG
                                                                                   EWLLGEISSGCYEGLQWLDEARTCFRVPWKHFARKDLS-EADARIFKAWAVARGRWPPSS 74
----KEGDKAEPATWKTRLRCALNKSPDFEEVTDRSQLDISEPYKVYRI----
                                                               QWLIEQIDSSMYPGLIWENEEKSMFRIPWKHAGKQDYNQEVDASIFKAWAVFKGKF----
                                                                                                                                                                                                           426 AA;
                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STANDARD;
                                                                                                                                                                                                                         110
                                                                                                                                                                                                           48356 MW;
                                                                                                                                                    11.3%;
21.8%;
                                                                                                                                  ; Score 308.5; DB 1;
; Pred. No. 4.2e-11;
71; Mismatches 161;
                                                                                                                                                                                                         TRYPTOPHAN PENTAD REPEAT. 1535D1B7C83E0355 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 426 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ICSBP).
                                                                                                                                                                   Length 426;
                                                                                                                                    Indels 185;
                                                                                                                                    Gaps
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134 PGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGDLLLQAVQOSC	뮍	Ş	ర్జ	Ş	DЪ	Ş	Dβ	Ş	멍	Ş	망	Ş	DЪ	Ş
PGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGGLPAPAGDKGDLLLQAVQQSC													•	
PPOP HSA HSA TPA KKL-	370		313			334			166			192	113	134
	EQLYVRQLAEEAGKSCGAGSVMQAPEEPPPDQVFRMFPDICASHQRSFF 418	:	LERDEVVQVFDTSQFFRELQQFYNSQGR-LPDGRVVLCFGEEFPDMAPLRSKLILVQI 369			PAELPDQKQLRYTEELLRHVAPGLHLELRGPQLWARRMGKCKVYWEVGGPPGSASPSTPA 393	EGLELVRFPP	VRATDPQQVAFPS	PEACRSQLLPDWWAQQPSTGVPLVTGYTTYDAHHSA 201	VQEPSPGA	PSVDDYMGMI KRSPSP		ATAGCVNEVTEMECGR	PGTDQTEAEAPAAVPPPQGGPPGPFLAHTHAGLQAPGPLPAPAGDKGDLLLQAVQQSC 191

Search completed: June 18, 2003, 12:47:06 Job time: 17 secs

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